# BOTSWANA THIRD NATIONAL REPORT ON IMPLEMENTATION OF THE CONVENTION ON BIODIVERSITY

SUBMITTED MAY 2005

BOTSWANA GOVERNMENT

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#### A. REPORTING PARTY

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#### Information on the preparation of the report

#### Box I.

Please provide information on the preparation of this report, including information on stakeholders involved and material used as a basis for the report.

Most of the information is from the Stocktake report and the BSAP. The stakeholders were from government departments; non governmental organizations; community based organizations who attended workshops.

#### **B. PRIORITY SETTING, TARGETS AND OBSTACLES**

#### Box II.

Please provide an overview of the status and trends of various components of biological diversity in your country based on the information and data available.

The Biodiversity Strategy and Action Plan Stocktaking Report identified seven distinct eco-regions. These are Zambezian flooded Grasslands, Zambezian Halophytics, Zambezian and Mopane Woodlands, Kalahari Acacia, Kalahari Xeric Savanna, South African Bushveld and Zambezia Baikiaea Woodlands. Of these ecoregions four are vulnerable i.e. South African Bushveld (deforestation, overgrazing, range degradation and veld fires), Zambezia Baikiaea Woodlands (cattle and overgrazing and change in vegetation communities), Zambezia Halophytics (mining, rangeland degradation, fires, wind erosion, fires, water extraction, fencing, increased salinity of surface water, decreased surface fresh water, overgrazing, lack of protection for critic avian breeding sites, uncontrolled tourism/ disturbance and wildlife conflicts) and Kalahari Acacia (increased cattle ranching, land transformation and degradation, fires, fences, climate change, poaching and invasive alien species). The status of the rest of the ecoregions is stable and intact.

Eco-regions of special concern or ecological uniqueness include the Zambezian Flooded Grasslands, the Miombo Woodlands and the wetland habitats. These eco-regions are globally important because they support a rich diversity of birds as well as large populations of elephants, buffalo and lechwe. The Zambezian Flooded Grasslands are the world's largest flooded savannas with extraordinary concentrations of large vertebrates. The Miombo Woodlands support some of the richest floras and bird assemblages with the most diverse and relatively intact woodland and savanna area of Southern Africa.

Climatic conditions and landforms are rather uniform in Botswana and so there are few distinct agroecosystems and farming systems. The Molapo farming system in the north-western part of the country has evolved to maximize production through the exploitation of receding moisture in the riverbeds

Although there has never been a comprehensive survey of plants in Botswana it is estimated that there are between 2,150 and 3,000 species of plants representing some 128 botanical families. There is a low level of endemism with only 15 species currently listed in the IUCN Red Data List (RDL), of which 9 are data deficient. According to the RDL there are 43 Red Data plant species in Botswana, 3 of which are endangered, 10 are vulnerable, 8 are near threatened and 17 are endemic to Southern Africa.

Vast wilderness areas support high densities of mammals making Botswana one of the last refuges for species requiring large areas e.g. elephant and wild dog. Botswana has a rich and diverse mammalian fauna with 147 identified species of which 111 are Red Data species. According to the Botswana Bird Atlas there are 570 bird species found in Botswana although only one species is near endemic. There is a total of 99 fish species found mainly in the large permanent river ways of the Limpopo, Chobe-Linyanti-Kwando system and the Okavango Delta. A total of 34 amphibian species and 131 reptile species can be found in Botswana. There are 3 endemic reptile species in the country. Invertebrate species richness in Botswana is extraordinary but still largely underdescribed.

Agro –biodiversity in Botswana is still rich in species at traditional farm level, although the commercial farms tend to focus on few species. Traditional crops and animals are gaining popularity and commanding a growing demand in the market as evidenced by increased sale of traditional products in informal markets in villages and towns. The main cereal crops of maize and Sorghum normally make up to 70% of area planted in a country with 28 crop species.

Cattle and goats are the most important species of the livestock kept in the country. The composition of cattle breeds is not fully known and the purity of the Tswana breed is also in question, due to popularity of exotic breeds and the long history of crossbreeding programme. However, an estimation of 50% of cattle is of Tswana breed. Goat and sheep breeds include Tswana, Boer and Saanen for goats and the Black headed Persian, Dorper, Damara and Karakul for sheep. As with cattle breed composition is not fully known.

There is still much missing in terms of available data, distribution of species, breeds and varieties. This lack of knowledge on diversity, status of some species and critical habitats seriously complicates the efforts of conservation and act as constraints to the conservation of biodiversity in the country.

#### **Priority Setting**

**1.** Please indicate, by marking an "X" in the appropriate column below, the level of priority your country accords to the implementation of various articles, provisions and relevant programmes of the work of the Convention.

	Article/Provision/Programme of Work	Level of Priority						
	Alticle/110Vision/110gramme of Work	High	Medium	Low				
a)	Article 5 – Cooperation	х						
b)	Article 6 - General measures for conservation and sustainable use	х						
c)	Article 7 - Identification and monitoring	х						
d)	Article 8 – <i>In-situ</i> conservation	х						
e)	Article 8(h) - Alien species	х						
f)	Article 8(j) - Traditional knowledge and related provisions		x					
g)	Article 9 – Ex-situ conservation		x					
h)	Article 10 – Sustainable use of components of biological diversity		x					
i)	Article 11 - Incentive measures		x					
j)	Article 12 - Research and training	х						
k)	Article 13 - Public education and awareness	х						
l)	Article 14 - Impact assessment and minimizing adverse impacts	х						
m)	Article 15 - Access to genetic resources		x					
n)	Article 16 - Access to and transfer of technology		x					
0)	Article 17 - Exchange of information	x						
p)	Article 18 – Scientific and technical cooperation	х						
q)	Article 19 - Handling of biotechnology and distribution of its benefits		х					
r)	Article 20 - Financial resources	х						
s)	Article 21 - Financial mechanism	N/A						
t)	Agricultural biodiversity	х						

u) Forest biodiversity	x	
v) Inland water biodiversity	х	
w) Marine and coastal biodiversity	N/A	
x) Dryland and subhumid land biodiversity	х	
y) Mountain biodiversity	N/A	

### Challenges and Obstacles to Implementation

**2.** Please use the scale indicated below to reflect the level of challenges faced by your country in implementing the provisions of the Articles of the Convention (5, 6,7, 8, 8h, 8j, 9, 10, 11,12, 13, 14, 15,16, 17, 18, 19 and 20)

3 = High Challenge	1 = Low Challenge
2 = Medium Challenge	0 = Challenge has been successfully overcome

#### N/A = Not applicable

Challenges									Art	icles	<b>S</b>							
		6	7	8	8h	8j	9	10	11	12	13	14	15	16	17	18	19	20
a) Lack of political will and support	0	0	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1
b) Limited public participation and stakeholder involvement	1	1	2	1	2	2	1	1	3	2	1	3	1	2	1	2	1	1
c) Lack of mainstreaming and integration of biodiversity issues into other sectors	1	1	2	2	1	2	2	2	2	1	1	1	2	1	0	1	1	1
d) Lack of precautionary and proactive measures	2	2	2	2	3	3	1	1	2	1	0	1	1	3	0	1	2	1
e) Inadequate capacity to act, caused by institutional weakness	2	2	2	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2
f) Lack of transfer of technology and expertise	3	2	2	2	2	2	2	1	1	2	0	1	3	3	2	3	3	1
g) Loss of traditional knowledge	2	2	2	2	2	3	1	2	1	1	1	0	3	0	2	0	0	0
h) Lack of adequate scientific research capacities to support all the objectives	3	2	2	2	2	2	2	1	1	1	0	0	2	2	1	2	2	0
i) Lack of accessible knowledge and information	2	2	2	2	2	1	2	1	1	1	1	1	2	2	1	2	2	1

j) Lack of public education and awareness at all levels	1	2	2	1	3	3	2	1	2	1	0	2	2	0	1	1	1	0
k) Existing scientific and traditional knowledge not fully utilized	2	2	2	2	2	2	1	2	1	1	1	0	1	0	1	2	1	0
I) Loss of biodiversity and the corresponding goods and services it provides not properly understood and documented	2	2	2	1	3	3	1	1	1	1	0	0	2	0	1	1	1	0
m) Lack of financial, human, technical resources	3	2	2	2	2	2	2	2	2	3	2	2	3	3	2	3	3	2
n) Lack of economic incentive measures	3	2	2	2	2	2	2	2	2	2	0	2	1	0	2	2	2	2
o) Lack of benefit- sharing	2	2	2	2	0	3	2	2	0	1	0	0	3	1	2	1	2	0
p) Lack of synergies at national and international levels	2	2	2	2	3	2	2	2	1	1	1	1	2	3	1	1	2	1
q) Lack of horizontal cooperation among stakeholders	2	2	2	2	2	3	2	2	1	2	1	2	2	2	2	1	2	1
r) Lack of effective partnerships	2	2	2	2	2	3	2	2	2	2	0	1	2	2	2	2	2	2
s) Lack of engagement of scientific community	2	2	1	0	2	2	1	2	1	0	0	1	3	2	1	1	2	0
t) Lack of appropriate policies and laws	2	2	1	1	2	3	2	1	1	2	1	2	2	2	2	1	2	0
u) Poverty	3	3	1	2	1	3	2	2	1	0	0	0	1	0	0	0	0	1
v) Population pressure	2	2	1	2	2	2	1	2	1	0	0	0	1	0	0	0	0	1
w) Unsustainable consumption and production patterns	2	2	0	1	1	3	1	3	2	0	0	0	2	0	1	1	2	1
x) Lack of capacities for local communities	2	2	2	2	2	3	2	2	2	2	1	2	3	0	2	1	2	0
y) Lack of knowledge and practice of ecosystem-based approaches to management	2	2	2	2	3	2	2	1	0	1	0	1	2	0	1	1	1	0
z) Weak law enforcement capacity	2	2	1	1	2	2	1	2	1	1	1	2	2	0	0	0	0	0
aa) Natural disasters and environmental change	2	2	1	1	2	2	1	2	1	0	0	2	1	0	1	1	1	1
bb) Others (please specify)																		

#### 2010 Target

The Conference of the Parties, in decision VII/30, annex II, decided to establish a provisional framework for goals and targets in order to clarify the 2010 global target adopted by decision VI/26, help assess the progress towards the target, and promote coherence among the programmes of work of the Convention. Parties and Governments are invited to develop their own targets with this flexible framework. Please provide relevant information by responding to the questions and requests contained in the following tables.

#### Box III.

Goal 1	ity of ecosystems,									
Target 1.1	ecological regions									
I) National target: Ha	I) National target: Has a national target been established corresponding to the global target above?									
a) No	a) No									
b) Yes, the same a										
c) Yes, one or more	x									

Please provide details below.

The National Biodiversity Strategy and Action Plan (NBSAP) has effectively catered for this objective under several specific targets for example Objective 2.2 establishes the need for a comprehensive protected area network to conserve ecosystems and species.

II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).

Pr	rogramme of work	Yes	No	Details
a)	Agricultural	x		The National Biodiversity Strategy and Action Plan (NBSAP) has effectively catered for this objective under several specific targets for example Objective 2.6.1 establishes the need for assessment of agricultural biodiversity, Obj 3.5 encourages adaptive land management procedures. Objective 3.8 and 2.6 also aim for the inclusion of farmers in the conservation and sustainable use of agricultural biodiversity.
b)	Inland water	x		
c)	Marine and coastal		N/A	
d)	Dry and subhumid land	x		
e)	Forest	Х		
f)	Mountain		N/A	

III) Has the global or national target been incorporated into relevant plans, programmes and strategies?

a) No	

b) Yes, into national biodiversity strategy and action plan	X
c) Yes, into sectoral strategies, plans and programmes	

Please provide details below.

Objective 2.2 of the NBSAP identifies the need for a comprehensive protected area network to conserve ecosystems and species; this includes taking Important Plant Areas and Important Bird Areas into consideration. Objective 2.3 establishes the need for effective ecosystems management practices including a review of current national and regional land management systems. Under Objective 2.7 the NBSAP calls for the rehabilitation of restoration or degraded ecosystems and habitats.

#### IV) Please provide information on current status and trends in relation to this target.

The National Stocktaking Exercise for the NBSAP identified seven ecoregions according to the WWF ecoregions criteria. These are the Zambezian Flooded Grasslands, Zambezian Halophytics, Zambezian and Mopane Woodlands, Kalahari Acacia, Kalahari Xeric Savanna, South Africa Bushveld, Zambezia Baikiaea Woodlands. The Zambezian Flooded Grasslands, Zambezian and Mopane Woodlands and the Kalahari Xeric Savanna ecoregions are in a stable and intact state. The other four ecoregions are in a vulnerable state i.e. Zambezia Baikiaea Woodlands (cattle and overgrazing and change in vegetation communities), South Africa Bushveld (deforestation, overgrazing, range degradation, fire and poaching), Kalahari Acacia (increased cattle ranching, land transformation and degradation, fire, climate change and poaching); and Zambezian Halophytics (mining, rangeland degradation, fire, wind erosion, water extraction, algae blooms, overgrazing, lack of protection for critical avian breeding sites and poaching).

#### V) Please provide information on indicators used in relation to this target.

In determining the conservation status of each of the ecoregions several indicators and criteria were used to develop a priority rank amongst the different ecoregions. These were Protection Level, Species Richness, Endemism, Red Data species and value to the nation.

#### VI) Please provide information on challenges in implementation of this target.

The Stocktaking Report shows that there are several challenges facing the conservation of ecosystems/ ecoregions in Botswana. Although most ecoregions are adequately covered by the Protected Areas system there are some ecoregions that do not fall within this protection especially in the eastern parts of the country. Also, there is no **nationally agreed** ecosystem/ ecoregions classification system which makes it difficult to inventory or monitor ecoregions. This is further complicated by the low level of data/ information on ecosystems. The country urgently needs an ecosystem/ ecoregions inventory. Nationally agreed indicators for use in monitoring ecosystems need to be developed.

VII) Please provide any other relevant information.

#### Box IV.

DOX IV.										
Target 1.2 Areas of particular importance to biodiversity protected										
I) National target: Has a national target been established corresponding to the global target above?										
a) No										
b) Yes, the same as	s the global target									
c) Yes, one or more specific national targets have been established X										
Please provide detai	Please provide details below.									

National targets relating to the global target have been included in the NBSAP. Measures include the prioritization of conservation efforts, development of a comprehensive Protected Areas network, effective management practices and the rehabilitation of degraded ecosystems.

	II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).						
Pr	ogramme of work	Yes	No	Details			
a)	Agricultural		х				
b)	Inland water		Х				
c) Marine and coastal N/A							
d)	d) Dry and subhumid land X						
e)	Forest		х				
f)	f) Mountain N/A						
	Has the global or national strategies?	al tar	get be	een incorporated into relevant plan	s, programmes and		
a)	No						
b)	b) Yes, into national biodiversity strategy and action plan				X		
c)	c) Yes, into sectoral strategies, plans and programmes						
Please provide details below.							
i i	The NBSAP sets out measures for the conservation of areas of particular importance to biodiversity. These measures are set out in Objective 2.1 (conservation efforts priorities particularly at district and local level), Objective 2.2 (establishment of a comprehensive protected area network to conserve ecosystems and species) Objective 2.3 (effective ecosystems management practices including a review of current land management practices and institutional capacity); and Objective 2.7 (rehabilitation and restoration of degraded ecosystems and habitats).						
IV) I	Please provide information	on cur	rent s	tatus and trends in relation to this ta	rget.		
The Global 200 project identified two Global priority areas in Botswana, these being the Zambezi Flooded Savannas (including the Okavango Delta which is protected as a Ramsar site) and the Central and Eastern Miombo woodlands. There are also a number of sites that have been described as important to Botswana, some of which have been categorized as National Heritage Sites and are protected by law although information on status and trends is not available. Some of these are the Tsodilo Hills, Baine's Baobabs, Lekhubu Island and Makgadikgadi Pans. Twelve sites have been identified by Birdlife International as Important Bird Areas six of which are covered by the Protected areas system. No Important Plant Areas have been identified yet.							
V) I	Please provide information	on inc	licator	s used in relation to this target.			
Natio	National indicators for this target have not yet been developed.						
VI) I	Please provide information	on cha	alleng	es in implementation of this target.			
				lly agreed set of criteria for such a s. Information is dated or insufficient.			
VII) I	Please provide any other re	levan <sup>-</sup>	tinfor	mation.			

#### Box V.

Goal 2							
Target 2.1 Restore, maintain, or reduce the decline of populations of species of selected taxonomic groups							
I) National target: H	I) National target: Has a national target been established corresponding to the global target above?						
a) No							
b) Yes, the same as the global target							
c) Yes, one or mo	re specific national targets have been established	Х					

Please provide details below.

This target has been included in the National Biodiversity Strategy and Action Plan under several objectives.

II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).

Programme of work	Yes	No	Details
a) Agricultural	х		This target has been catered for under the following objectives in the NBSAP. Objective 2.4.2 development and implementation of management and recovery plans for priority taxa; Objective 2.4.3 support and promote in-situ conservation for rare and threatened species.
b) Inland water	X		This target is articulated in the NBSAP under Objective 5.5.3 monitoring of aquatic species including IAS; Objective 5.6.4 monitoring and control of IAS; Objective 5.6.1 stop government distribution of IAS.
c) Marine and coastal			N/a
d) Dry and subhumid land	x		This target is included in the NBSAP in the following objectives. Objective 3.6.2 survey IAS and publish updates regularly; Objective 5.6.7 develop information campaigns on IAS.
e) Forest	x		The NBSAP covers this target under the following objectives. Objective 2.7.1 develop easy to use guidelines on rehabilitation and restoration of degraded ecosystems; Objective 2.5.2 develop propagation and harvesting protocols for key traded species.
f) Mountain			N/A

III) Has the global or national target been incorporated into relevant plans, programmes and strategies?

a)	No	
b)	Yes, into national biodiversity strategy and action plan	X
c)	Yes, into sectoral strategies, plans and programmes	

Please provide details below.

This target has been catered for under the following objectives in the NBSAP. Objective 2.4.2 development and implementation of management and recovery plans for priority taxa; Objective 2.4.3 support and promote in-situ conservation for rare and threatened species; Objective 2.7.1

develop easy to use guidelines on rehabilitation and restoration of degraded ecosystems; Objective 2.5.2 develop propagation and harvesting protocols for key traded species; Objective 3.6.2 survey IAS and publish updates regularly; Objective 5.6.7 develop information campaigns on IAS; Objective 5.5.3 monitoring of aquatic species including IAS; Objective 5.6.4 monitoring and control of IAS; Objective 5.6.1 stop government distribution of IAS.

- IV) Please provide information on current status and trends in relation to this target.
- According to the National Stocktaking Report for the Biodiversity Strategy and Action Plan Botswana has between 2150 and 3000 plant species representing 128 botanical families. There is a low level of endemism with only approximately 15 species. There are 43 Red Data species, 2 endangered species, 10 vulnerable species and 8 near threatened species. The report identified 188 tree species of which 17 are endemic to Southern Africa and 72 are thought to be potentially Invasive alien species. There are limited ex-situ conservation activities.
- The report also identified 147 mammal species, 570 bird species of which only one is near endemic, 99 fish species occurring mostly in large permanent waterways, 34 amphibian species, 131 reptile species of which 3 are endemic and only the python is protected. There are three species of endangered fauna: the wild dog, the elephant (although it is not endangered in Botswana) and the black-cheeked lovebird. There are 15 species of vulnerable fauna most of which are protected by law, 21 lower risk conservation dependant (most protected by law), 13 lower risk near threatened and 74 lower risk least concern species most of which again are protected by law. There are limited ex-situ conservation activities in the country with only four private centres holding small collections of living animal species.
- Botswana is still rich in Agrobiodiversity predominantly in the subsistence agricultural sector. The commercial sector is characterized by exotic livestock and hybrid/ improved cultivars. Traditional agriculture is threatened by factors such as drought, free seed distribution for drought recovery, which is usually characterized by exotic seed, lack of organized sources of traditional seeds. There are 28 species of crops and Botswana is a secondary centre of diversity for the Citrillus spp and a primary center of diversity for the Vigna spp. There are several species of livestock in Botswana. Of the 11 species of cattle 50% are thought to be endemic 2 of which are under severe threat because of cross breeding and neglect.
- V) Please provide information on indicators used in relation to this target.

Indicators used in the target were the protection level, species richness, endemism, number of red data species and national value.

- VI) Please provide information on challenges in implementation of this target.
- Challenges in implementing this target include limited data, limited ex-situ collections and facilities, lack of surveys, lack of nationally agreed criteria and indicators, limited spatial data and limited data on micro-organisms, fungi and invertebrates.

VII) Please provide any other relevant information	itioi	atio	ma	infor	vant	relev	other	anv	provide	Please	/11)	١
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#### Box VI.

Target 2.2	Status of threatened species improved						
I) National target: Has a national target been established corresponding to the global target above?							
a) No	a) No						
b) Yes, the same as the global target							
c) Yes, one or more specific national targets have been established X							
Please provide details below.							
This target is catered for under the NBSAP.							
II) National targets	II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been						

established, please indicate	established, please indicate here, and give further details in the box(es).							
Programme of work	Yes	No	Details					
a) Agricultural	х		The NBSAP makes provision for this programme of work under the following objectives. Objective 2.6.2 – development of a database containing the distribution of species, varieties strains and conservation status. Objective 2.6.3 – the design and implementation of collecting programmes for ex-situ preservation of Agrobiodiversity, Objective 2.6.6 – involvement of the community in in-situ conservation.					
b) Inland water	X		Objective 2.4 of the NBSAP states that needs of species, in particular threatened and endemic species should be addressed.					
c) Marine and coastal			N/A					
d) Dry and subhumid land	x		Objective 2.4 of the NBSAP states that needs of species, in particular threatened and endemic species should be addressed.					
e) Forest	X		Objective 2.4 of the NBSAP and Objective 2.5.2, which calls for development of propagation and harvesting protocols for key, traded animal and plant species are addressing this issue.					
f) Mountain			N/A					

# III) Has the global or national target been incorporated into relevant plans, programmes and strategies?

- a) No
  b) Yes, into national biodiversity strategy and action plan

  X
- c) Yes, into sectoral strategies, plans and programmes

#### Please provide details below.

The NBSAP is addressing this target through the following objectives. Objective 2.4 – the needs of species in particular threatened and endemic species should be addressed, Objective 2.5 conservation of agricultural biodiversity, Objective 2.5 - effective management systems for nodomesticated economically important species in place.

#### IV) Please provide information on current status and trends in relation to this target.

For plants, there are 43 Red Data species, 2 endangered species, 10 vulnerable species and 8 near threatened species.

For fauna, there are three species of endangered fauna: the wild dog, the elephant (although it is not endangered in Botswana) and the black-cheeked lovebird. There are 15 species of vulnerable fauna most of which are protected by law, 21 lower risk conservation dependant (most protected by law), 13 lower risk near threatened and 74 lower risk least concern species most of which again are protected by law. There are limited ex-situ conservation activities in the country with only four private centres holding small collections of living animal species.

Crop agricultural biodiversity is threatened by factors such as drought, free seed distribution for drought recovery, which is usually characterized by exotic seed, lack of organized sources of traditional seeds. Of the 11 species of cattle 50% are thought to be endemic 2 of which are under severe threat because of cross breeding and neglect.

#### V) Please provide information on indicators used in relation to this target.

Indicators used in the target were the protection level, species richness, endemism, number of red data species and national value.

- VI) Please provide information on challenges in implementation of this target.
- Challenges in implementing this target include limited data, limited ex-situ collections and facilities, lack of surveys, lack of nationally agreed criteria and indicators, limited spatial data and limited data on micro-organisms, fungi and invertebrates.
- VII) Please provide any other relevant information.

#### Box VII.

Goal 3 Promote the conservation of genetic diversity							
Target 3.1  Genetic diversity of crops, livestock, and of harvested species of tree fish and wildlife and other valuable species conserved, and associate indigenous and local knowledge maintained							
I) National target: H	I) National target: Has a national target been established corresponding to the global target above?						
a) No							
b) Yes, the same as the global target							
c) Yes, one or mo	re specific national targets have been established	Х					

Please provide details below.

The NBSAP has incorporated this target in objective 5: Coping with Environmental change and threats to biodiversity; objective 3: Better understanding of biodiversity and ecological processes; objective 2: Long term conservation and management of Botswana's biological diversity and genetic resources; objective 1: Efficient and sustainable utilization of all components of biodiversity through appropriate land and resource use practices and management and objective 9: Improved availability and access to biodiversity data and information, and promotion of exchange of information.

Programme of work	Yes	No	Details
a) Agricultural	X		The NBSAP makes provision for this target under several objectives. Objective 2.6.5 establishes the need for models and approaches that promote a living landscape and in-situ preservation of agrobiodiversity at species and genotype level. Objective 2.6.6 calls for the involvement of communities in in-situ conservation of agrobiodiversity and inclusion of indigenous knowledge systems into farming systems. Objective 4.4.1 calls for the development of comprehensive exsitu genetic resources conservation programmes.
b) Inland water	x		This target is covered by Objectives 2.8.3 and 4.4.1 as mentioned above.
c) Marine and coastal			N/A
d) Dry and subhumid land	x		As well as Objectives 2.8.3 and 4.4.1, this target is included in the NBSAP under Objective 2.5.2, which calls for the development of propagation and harvesting

protocols for key animal and plant species.						
protocols for key drilling and plant species.						
e) Forest	This target is covered by the NBSAP under Objectives 2.8.3, 4.4.1 and 2.5.2 as mentioned above.					
f) Mountain N/A						
III) Has the global or national target been incorporated into relevant plans, programmes and strategies?						
a) No						
b) Yes, into national biodiversity strategy and action plan						
c) Yes, into se	ectoral strategies, pla	ns and programmes				
Please provide	details below.					
which prom agrobiodiver comprehensi	ote living landsca sity at species and ve ex-situ genetic	shes a target for the dev pes and in-situ conse genotype level. Objectiv resources conservation narvesting protocols of ke	ervation, and the e 4.4.1 calls for while Objective	he preservation of the development of		

#### IV) Please provide information on current status and trends in relation to this target.

There is some collecting in the country mainly for plant breeding purposes. This is being carried out by the Department of Agricultural Research. Some research and collecting is on-going at the University of Botswana. With Protected Areas covering approximately 45% of the country there is quite a lot of in-situ conservation, especially within National Parks, Forest Reserves and botanical monuments. The International Plant Genetic Resources Institute (IPGRI) carried out some collections of wild plant seeds which are stored at RBG Kew, the Consultative Group on International Agricultural Resources (CGIAR) and the National Plant Genetic Resources Centre (NPGRC). The Department of Agricultural Research is collecting seeds from the wild relatives of crops held at the National Gene Bank. The Millenium Seed Bank project has started collecting seeds of endemic, endangered and economical important wild plants. These collections will be stored at the NPGRC and RBG Kew.

#### V) Please provide information on indicators used in relation to this target.

Because of the low level of work carried out in this area, no indicators have been set as yet.

#### VI) Please provide information on challenges in implementation of this target.

Conservation at the genetic level is poor for all micro-organisms. The genetic diversity for most organisms is not known. In-situ conservation for livestock and crops is being carried out on a small scale. Ex-situ conservation for animals is not well developed. Data collection and research needs to be better coordinated and additional taxonomic research is needed for all organisms with proper curation of collections.

VII) Ple	ease pro	vide any	other	relevant	information.
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#### Box VIII.

Goal 4 Promote sustainable use and consumption.							
Target 4.1  Biodiversity-based products derived from sources that are sustainably managed, and production areas managed consistent with the conservation of biodiversity							
I) National target: Ha	I) National target: Has a national target been established corresponding to the global target above?						
a) No							
b) Yes, the same as the global target							
c) Yes, one or more	e specific national targets have been established	X					

Please provide details below.

The NBSAP has covered this target under objective 6: Appropriate valuation/appreciation of biological diversity and raised public awareness on the role of biodiversity in sustainable development and participation in biodiversity related activities and decision making and objective 8: Safe industrial and technological development and other services based on national biodiversity resources for future prosperity.

Pro	ogramme of work	Yes	No	Details
a)	Agricultural	x		This has been incorporated into the following objectives. Objective 2.6.1 determining the availability and distribution of agrobiodiversity in Botswana and identify farming systems which sustain high diversity; Objective 2.6.5 Develop models and approaches which promote a living landscape and in-situ preservation of agrobiodiversity at species and genotype levels. Subsequently actively promote and support the adoption and implementation of biodiversity friendly farming; Objective 3.8.1 Implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 2.6.1 Determine availability and distribution of agrobiodiversity and identify farming systems that sustain high diversity.
b)	Inland water		x	There is currently no information on this target.
c)	Marine and coastal			N/A
d)	Dry and subhumid land	X		As well as Objectives 2.6.1 and 2.6.5 mentioned above the NBSAP has incorporated this target into the following. Objective 2.3.2 review current national and regional land management systems and land uses in terms of effectiveness in biodiversity conservation.
e)	Forest	X		As well as Objective 3.8.1 the following objectives incorporate this target. Objective 3.4.5 Promote and establish a network of fuelwood plantations and community woodlots using indigenous species.
f)	Mountain			N/A
III) F	Has the global or nationa	al tarç	get be	een incorporated into relevant plans, programmes and

strategies?	
a) No	
b) Yes, into national biodiversity strategy and action plan	X
c) Yes, into sectoral strategies, plans and programmes	

Please provide details below.

- This target has been incorporated into the NBSAP under the following Objectives. Objective 2.6.1 determining the availability and distribution of agrobiodiversity in Botswana and identify farming systems which sustain high diversity; Objective 2.6.5 Develop models and approaches which promote a living landscape and in-situ preservation of agrobiodiversity at species and genotype levels. Subsequently actively promote and support the adoption and implementation of biodiversity friendly farming; Objective 3.8.1 Implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 2.6.1 Determine availability and distribution of agrobiodiversity and identify farming systems that sustain high diversity; Objective 2.3.2 review current national and regional land management systems and land uses in terms of effectiveness in biodiversity conservation; Objective 3.4.5 Promote and establish a network of fuelwood plantations and community woodlots using indigenous species.
- IV) Please provide information on current status and trends in relation to this target.
- The Community Based Natural Resources Management programme being implemented through various government policies aims to encourage the sustainable use of natural resources by combining resources conservation and utilization of such product baskets, clay pots and wildlife.
- For wildlife based activities, communities are given quotas and in turn have to fulfill several requirements and responsibilities. For fisheries licenses are issued for subsistence, sport and commercial fishing while agricultural resources are controlled through a system of permits.
- Several plants with commercial potential are controlled using a permit system. Only mophane (Colophospermum) and the grapple plant (Harpagophytum procumbens) are exploited at a significant level and over-harvesting is unlikely.
- V) Please provide information on indicators used in relation to this target.

Not much work has been done in this area and so indicators have not been set as yet.

- VI) Please provide information on challenges in implementation of this target.
- Not much has been done in this area and so there is a shortage of data. Inventory and monitoring is very low and nationally agreed criteria have not been developed yet.
- VII) Please provide any other relevant information.

#### Box IX.

DOX TX.								
Target 4.2	es, or that impacts							
I) National target: Has a national target been established corresponding to the global target above?								
a) No								
b) Yes, the same as the global target								
c) Yes, one or more specific national targets have been established X								
Please provide details below.								
1	been included in the NBSAP that relate to this target obje of all components of biodiversity through appropriate lar							

practices and management.

Pro	ogramme of work	Yes	No	Details
a)	Agricultural	x		This target is addressed under the following NBSAP objectives. Objective 3.2.2 evaluate the impact of different land management policies; Objective 3.2.2 develop land use best practice guidelines and consider creation of incentives for appropriate land uses; Objective 3.5.2 continue extension work on rangeland management including conservation measures to encourage sustainable use; Objective 3.5.6 provide incentives to reduce overgrazing and to restore degraded rangelands; Objective 3.8.1 implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices.
b)	Inland water	х		The NBSAP has addressed this target in the following objectives. Objective 3.6.2 implement wetland management strategy making provisions for increased community participation; Objective 3.6.3 continue implementation of the Ramsar Convention and wetland management plans; Objective 3.6.4 enhance national capacity for wetlands management, protection, regulation.
c)	Marine and coastal			N/A
d)	Dry and subhumid land	x		In relation to this work programme the NBSAP has targeted action through these objectives. Objective 3.5.1 survey rangeland biodiversity and continue rangeland monitoring including bush encroachment, allocation and use or water points and stocking and grazing levels etc; Objective 3.7.1 develop a comprehensive strategy and programme for sustainable use of wildlife resources including setting of quotas, monitoring of resources; Objective 3.8.1 implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices.
e)	Forest	X		In relation to this work programme the NBSAP has targeted action through these objectives. Objective 3.4.3 update the biomass inventory and assess forestry biodiversity trends and patterns; Objective 3.4.6 develop and implement forest reserve management plans; Objective 3.1.1. Institutionalize the guidelines of the ecosystem approach and the BSAP into resource management and sustainable land use strategies; extend the veldproduct monitoring system to include models for quota setting, carrying capacity guidelines and monitoring and enforcement.
f)	Mountain			N/A
	las the global or national trategies?	al tar	get be	een incorporated into relevant plans, programmes and
a)	No			

b) Yes, into nationa	al biodiversity strategy and action plan	Х							
c) Yes, into sectora	c) Yes, into sectoral strategies, plans and programmes								
Please provide deta	ils below.								
IV) Please provide information on current status and trends in relation to this target.									
(Colophospermum	commercial potential are controlled using a permit systal) and the grapple plant (Harpagophytum procumbens) and over-harvesting is unlikely.								
limited commercia	diversity as a source of livelihoods has declined in the pas al and subsistence use has declined. It is therefore likely country scale except for a few specific localized area								
V) Please provide info	ormation on indicators used in relation to this target.								
Indicators have not ye	t been developed.								
VI) Please provide info	ormation on challenges in implementation of this target.								
There are no sustained data and uncoordi	d inventory and monitoring programmes, there is a low levnated research.	rel of information and							
VII) Please provide any	y other relevant information.								
Вох Х.									
Target 4.3	No species of wild flora or fauna endangered by int	ernational trade							
I) National target: Has a national target been established corresponding to the global target above?									
a) No X									
b) Yes, the same as the global target									
c) Yes, one or more specific national targets have been established									
Please provide details below.									
A target has not yet been established but in the interim, wild and endangered flora and fauna are protected by various legal instruments. International trade in wild biological resources is controlled by the Wildlife and National Parks Act which includes the CITES regulations.									

Programme of work		No	Details
a) Agricultural		Х	
b) Inland water		Х	
c) Marine and coastal			N/A
d) Dry and subhumid land		Х	

e)	Forest		x					
f)	Mountain			N/A				
	las the global or nationa trategies?	ıl tarç	get be	een incorporated into relevant plan	s, programmes and			
a)	No				Х			
b)	Yes, into national biodiver	sity s	trateg	y and action plan				
c)	Yes, into sectoral strategic	es, pla	ns an	d programmes				
Ple	ase provide details below.							
1) () D				tatus and translating to this to				
IV) P	lease provide information (	on cur	rent s	tatus and trends in relation to this tar	get.			
V) P	lease provide information	on ind	icator	s used in relation to this target.				
\(\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		مام مد	llon er er					
VI) P	lease provide information (	on cha	illenge	es in implementation of this target.				
VII) P	VII) Please provide any other relevant information.							

#### Box XI

Box XI.								
Goal 5	Pressures from habitat loss, land use change and degradation, and unsustainable water use, reduced.							
Target 5.1	Rate of loss and degradation of natural habitats ded	creased						
I) National target: Has a national target been established corresponding to the global target above?								
a) No								
b) Yes, the same as the global target								
c) Yes, one or more specific national targets have been established X								
Please provide details below.								
and threats to biodive	ersity and objective 9: Improved availability and access to I	Several NBSAP objectives relate to this target, e.g. Objective 5: Coping with environmental change and threats to biodiversity and objective 9: Improved availability and access to biodiversity data and information, and promotion of exchange of information.						

II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).

Programme of work	Yes	No	Details	
a) Agricultural	X		The NBSAP covers this target under the following. Objective 3.1.1 Institutionalise the guidelines of the ecosystem approach and the NBSAP into resource management and sustainable use strategies; Objective 3.2.1 Evaluate the impact of different land management policies on biodiversity conservation; Objective 3.2.2 develop land use best bet practices guidelines and consider creation of incentives for appropriate land uses; Objective 5.4.4 critically examine the effects of the Agricultural Policy on biodiversity in the rangelands.	
b) Inland water	x		The NBSAP covers this target under the following. Objective 5.5.3 include the monitoring of aquatic species including IAS in water monitoring programmes; Objective 5.6.1 survey levels of IAS at ecosystem level and publish updates regularly; Objective 3.6.4 enhance national capacity for wetlands management.	
c) Marine and coastal			N/A	
d) Dry and subhumid l	and X		This target is catered for within the NBSAP under Objective 5.4.1 develop national EIA guidelines to cover all sectors and incorporate EIA into sub-district guidelines; Objective 5.4.4 critically examine the effects of the Agricultural Policy on biodiversity in the rangelands; Objective 3.1.1 Institutionalise the guidelines of the ecosystem approach and the NBSAP into resource management and sustainable use strategies.	
e) Forest	X		This target is catered for within the NBSAP under Objective 3.1.1 Institutionalise the guidelines of the ecosystem approach and the NBSAP into resource management and sustainable use strategies; Objective 3.4.5 develop and establish a network of fuelwood plantations and community woodlots using indigenous species.	
f) Mountain			N/A	
III) Has the global or r strategies?	III) Has the global or national target been incorporated into relevant plans, programmes and strategies?			
a) No	a) No			

#### Please provide details below.

b) Yes, into national biodiversity strategy and action planc) Yes, into sectoral strategies, plans and programmes

The target has been incorporated into several NBSAP targets e.g. Objective 3.1.1 Institutionalize the guidelines of the ecosystem approach and the NBSAP into resource management and sustainable use strategies; Objective 3.2.1 Evaluate the impact of different land management policies on biodiversity conservation; Objective 3.2.2 develop land use best bet practices guidelines and consider creation of incentives for appropriate land uses; Objective 5.4.4 critically examine the effects of the Agricultural Policy on biodiversity in the rangelands; Objective 5.5.3 include the monitoring of aquatic species including IAS in water monitoring programmes; Objective 5.6.1

survey levels of IAS at ecosystem level and publish updates regularly; Objective 3.6.4 enhance national capacity for wetlands management.

- IV) Please provide information on current status and trends in relation to this target.
- Botswana has a low population overall but increasing urbanization has led to increased pressures on biodiversity in surrounding areas. This in turn has led to an increase in the use of fuel wood and water. Increasing tourism has led to increased human population and development of new infrastructure such as roads, hotels and lodges in wilderness areas resulting in habitat destruction and disturbance. The main areas where this is a problem are Chobe and Okavango.
- Habitat fragmentation and conversion are mainly caused by an increase in agricultural production, urban development, construction of reservoirs and expansion of road and communications networks. Increasing water extraction is as a problem.
- Increasing over utilization of natural resources around settlements and water points is leading to increasing bush encroachment and deforestation especially in the areas of East and South East Botswana.
- V) Please provide information on indicators used in relation to this target.

No indicators have been developed yet.

- VI) Please provide information on challenges in implementation of this target.
- The low level of biodiversity prioritization is a challenge in protecting habitats. The lack of information and data is also a problem. There is also an uncoordinated approach to research, which has led to duplication of efforts and gaps in knowledge. Inventory and monitoring is low and uncoordinated.
- VII) Please provide any other relevant information.

#### Box XII.

BOX ATT.								
Goal 6	Control threats from invasive alien species.							
Target 6.1	controlled							
I) National target: Ha	I) National target: Has a national target been established corresponding to the global target above?							
a) No								
b) Yes, the same as the global target								
c) Yes, one or more specific national targets have been established X								
Please provide details below.								

II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).

This target is incorporated in the NBSAP through objective 5 already stated earlier.

Programme of work	Yes	No	Details
a) Agricultural	Х		The NBSAP has incorporated this target through Objective 5.6.1 stop government of known IAS through government nurseries; Objective 5.6.4 prepare an IAS strategy and policy with the aim to prevent introduction and spread of IAS; Objective 5.6.5 monitor import, export and movement of genetic resources with special emphasis of IAS; Objective 5.6.8

		train customs and excise IAS.	staff in basic identification of
b) Inland water	x	This is the same as in a) abo	ve.
c) Marine and coastal		N/A	
d) Dry and subhumid land	x	This is the same as in a) abo	ve
e) Forest	х	This is the same as in a) abo	ve.
f) He Mountain		N/A	

## III) Has the global or national target been incorporated into relevant plans, programmes and strategies?

- a) No
  b) Yes, into national biodiversity strategy and action plan X
- c) Yes, into sectoral strategies, plans and programmes

Please provide details below.

In the NBSAP the whole of Objective 5.6 is dedicated to the subject of monitoring and controlling IAS. Several targets have been identified regarding this.

#### IV) Please provide information on current status and trends in relation to this target.

Invasive aliens are not yet seen to be a major threat to biodiversity in Botswana although the levels of invasion are not known. There is some legislation to control the introduction of some aquatic and noxious weeds but this is all. In the past the forestry Department distributed seeds that have been proven to be invasive in neighboring countries. There are 72 species of known plant invasive aliens occurring in Botswana. One species of invasive fish, the nile tilapia (*Orechronis niloticus*) has established itself in South Africa and Zimbabwe and might find its way into the waterways of Botswana.

#### V) Please provide information on indicators used in relation to this target.

Invasive aliens are not sufficiently studied or monitored so most of the information relating to this target is gathered from neighboring countries.

#### VI) Please provide information on challenges in implementation of this target.

The lack of a proper inventory and monitoring system and nationally agreed criteria is a major problem. So too is the lack of a proper IAS strategy and policy as well as trained personnel in this area.

VII) Please provide any other relevant information.

Box XI		Managemer	ıt nlan	s in place for major alien spec	ries that threaten
Targ	jet 6.2			ats or species	nes that threaten
I) Na	ational target: H	as a national t	arget be	een established corresponding to the g	lobal target above?
a)	No				
b)	Yes, the same a	as the global t	arget		
c)	Yes, one or mor	re specific nati	onal tar	gets have been established	X
Ple	ase provide deta	ails below.			
This 1	target has been i	ncorporated in	nto the	NBSAP.	
				mes of work: If such national targe give further details in the box(es).	t(s) ha(s)(ve) been
Pro	ogramme of wo	ork Ye	s No	Details	
a)	Agricultural	x		The target has been articulated in objective 5.6.4 prepare an IAS str the aim to prevent introduction ar promoting the use of indigenous s	rategy and policy with nd spread of IAS while
b)	Inland water	X		The target has been articulated in objective 5.6.4 prepare an IAS str the aim to prevent introduction ar promoting the use of indigenous s	rategy and policy with nd spread of IAS while
c)	Marine and coa	stal		N/A	
d)	Dry and sub hu	mid land X		The target has been articulated in objective 5.6.4 prepare an IAS str the aim to prevent introduction ar promoting the use of indigenous s	rategy and policy with nd spread of IAS while
e)	Forest	x		The target has been articulated in objective 5.6.4 prepare an IAS strathe aim to prevent introduction and promoting the use of indigenous spec	tegy and policy with spread of IAS while
f)	Mountain			N/A	
III) Has the global or national target been incorporated into relevant plans, programmes and strategies?					
a)	No				
b)	Yes, into national biodiversity strategy and action plan X				
c)	c) Yes, into sectoral strategies, plans and programmes				
Ple	ase provide deta	ails below.			
Tho	subject of IAS	has been de	alt wit	h thoroughly in the NRSAP in Ohi	octivo 5.6 i.o. IAS

The subject of IAS has been dealt with thoroughly in the NBSAP in Objective 5.6 i.e. IAS management strategies and implementation and enforcement capacity put in place.

IV) Please provide information on current status and trends in relation to this target.

There is currently no legislation on IAS in Botswana. Also there is no mechanism in place to control introduction of IAS into the country. The subject has not been well studied in the country and so occurrence of IAS is not known apart from those species that have been identified as IAS in neighboring countries. There is very little action on IAS in the country except in the north of the country where the Aquatic Vegetation Control Unit is managing aquatic weeds such as *Salvinia*.

V) Please provide information on indicators used in relation to this target.

Invasive aliens are not sufficiently studied or monitored so most of the information relating to this target is gathered from neighboring countries.

VIII) Please provide information on challenges in implementation of this target.

The lack of a proper inventory and monitoring system and nationally agreed criteria is a major problem. So too is the lack of a proper IAS strategy and policy as well as trained personnel in this area.

VI) Please provide any other relevant information.

#### Box XIV.

Goal 7	Address challenges to biodiversity from climate change, and pollution.							
Target 7.1	of biodiversity to							
I) National target: Has a national target been established corresponding to the global target above?								
a) No								
b) Yes, the same as the global target								
c) Yes, one or more specific national targets have been established X								
Diagon provide details below								

Please provide details below.

The NBSAP incorporates this target through objective 5 on climate change and pollution. Strategic target 5.1: early warning mechanisms in preparedness for natural disaster in place together with mitigation plans; 5.3 effects of climate change on vegetation, fauna and livelihoods investigated to allow for appropriate responses and 5,7 water and air pollution levels reduced to control biodiversity loss.

Programme of work	Yes	No	Details
a) Agricultural	X		This target is addressed by the NBSAP through Objective 5.3.2 integrate drought and other climatic concerns into Sectoral planning especially agriculture; Objective 5.3.1 research effects of climate change on biodiversity focusing on vulnerable species and areas; Objective 5.1.5 mainstream environmental disaster management into the national development budget; Objective 5.3.3 establish breeding programmes for drought tolerant agrobiodiversity varieties and breeds and develop appropriate agricultural methods.
b) Inland water	X		This is addressed by Objective 5.3.2 integrate drought and other climatic concerns into Sectoral planning especially agriculture.
c) Marine and coastal			N/A

d)	Dry and subhumid land	x	This target is covered by the NBS/research effects of climate ch focusing on vulnerable species 5.1.5 mainstream environmental into the national development but	ange on biodiversity and areas; Objective disaster management		
e)	Forest	x	As in d) above.			
f)	Mountain		N/A			
	Has the global or national trategies?	al target l	peen incorporated into relevant plar	ns, programmes and		
a)	No					
b)	Yes, into national biodive	Х				
c) Yes, into sectoral strategies, plans and programmes						
Ple	Please provide details below.					
The target is incorporated into the NBSAP through Objective 5.1 early warning mechanisms and mitigations plans and Objective 5.3 effects of climate change on vegetation, animals and livelihoods investigated.						
IV) F	Please provide information	on current	status and trends in relation to this ta	rget.		
Available information suggests that Botswana is highly vulnerable to climate change. Temperatures are predicted to rise by 1 – 3 degrees while it is believed that rainfall will become more erratic. If this happens it is predicted that crop yields for sorghum and maize will be reduced by about 30%. Thus it is expected that climate change will adversely affect crop and livestock production. More information on climate change, trends and status and trends is not available.						
V) F						
	No indicators on the effect of climate change on biodiversity have been developed yet.					
VI) Please provide information on challenges in implementation of this target						

Challenges are limited capacity, lack of indicators, poor information regarding the link between biodiversity and climate change.

VII) Please provide any other relevant information.

#### Box XV.

Target 7.2	Reduce pollution and its impacts on biodiversity						
I) National target: Has a national target been established corresponding to the global target above?							
a) No	a) No						
b) Yes, the same as the global target							
c) Yes, one or more specific national targets have been established X							
Please provide details below.							
The NBSAP has incorporated this target in 5.1 and 5.3 mentioned above.							
II) National targets	for specific programmes of work: If such national target	et(s) ha(s)(ve) been					

established, please indicate here, and give further details in the box(es).					
Programme of work	Yes	No	Details		
a) Agricultural	X		The NBSAP adequately addresses this target in Object 5.7, which calls for the reduction of levels of pollution. The objective calls for studies into the effects and co of pollution on biodiversity; the development a implementation of pollution standards; identification sources and root causes of pullution and mitigati measures to reduce pollution at source; monitoring hydrological change and water quality especial around urban and industrial centres; and the reduct of pesticide use.		
b) Inland water	x		As above in a).		
c) Marine and coastal			N/A		
d) Dry and subhumid land	x		As above in a).		
e) Forest	x		As above in a).		
f) Mountain	f) Mountain N/A				
III) Has the global or national strategies?	al tarç	jet be	een incorporated into relevant plans, programmes and		
a) No	a) No				
b) Yes, into national biodive	rsity st	rateg	y and action plan X		
c) Yes, into sectoral strateg	ies, pla	ans an	d programmes		
Please provide details below.					
The NBSAP adequately address of pollution	ses this	s targ	et in Objective 5.7, which calls for the reduction of levels		
IV) Please provide information	on cur	rent s	tatus and trends in relation to this target.		
V) Please provide information	on ind	icator	s used in relation to this target.		
Indicators used in monitoring p	ollutio	n are t	the same as used by the WHO.		
VI) Please provide information	on cha	llenge	es in implementation of this target.		
VII) Please provide any other relevant information.					

Box XVI .				
Goal 8	Maintain cap support liveli		of ecosystems to deliver goods	and services and
Target 8.1	Capacity of e	cosys	tems to deliver goods and services	s maintained
I) National target: H	las a national tar	get be	een established corresponding to the g	lobal target above?
a) No				
b) Yes, the same	as the global tar	get		
c) Yes, one or mo	ore specific nation	nal tar	gets have been established	Х
Please provide det	ails below.			
place and 4.2 biodive plans.  II) National targets	ersity and ecosys	stems ogram	NBSAP. 2.3 Effective ecosystem mana concerns effectively integrated into number of work: If such national targety give further details in the box(es).	ational development
Programme of w	ork Yes	No	Details	
a) Agricultural	X		The NBSAP through objectives 2 a target. Objective 2 calls for ecosystems through a compre protected areas, effective manage conservation of agrobiodiversity rehabilitation of degraded ecosyst for the ability to cope with e through mitigation plans to minim disasters on biodiversity, underst of climate change on biodiversith habitat destruction, management of pollution levels.	the conservation of thensive network of themsive network of themsive network of and restoration an ems. Objective 5 call invironmental chang nize effects of natural tranding of the effect ty, reduced levels of
			As well as the objectives mentione addresses this target through Objective of wetland ecosystems biodiv	ective 3.6 Sustainab

As in a) above.

management

N/A

N/A

X

management capacity.

of the programme of work.

processes. This is to be done through implementation of a wetlands policy, implementation of wetland

and

Although not specifically mentioned, the objectives

mentioned in a) above will enhance the implementation

enhanced

plans

b) Inland water

e) Forest

f) Mountain

c) Marine and coastal

d) Dry and subhumid land

a)	No	
b)	Yes, into national biodiversity strategy and action plan	X
c)	Yes, into sectoral strategies, plans and programmes	

wetlands

Please provide details below.

This target has been incorporated in Objectives 2, 3 and 5 of the NBSAP.

- IV) Please provide information on current status and trends in relation to this target.
- The National Stocktaking Exercise for the NBSAP identified seven ecoregions according to the WWF ecoregions criteria. These are the Zambezian Flooded Grasslands, Zambezian Halophytics, Zambezian and Mopane Woodlands, Kalahari Acacia, Kalahari Xeric Savanna, South Africa Bushveld, Zambezia Baikiaea Woodlands. The Zambezian Flooded Grasslands, Zambezian and Mopane Woodlands and the Kalahari Xeric Savanna ecoregions are in a stable and intact state. The other four ecoregions are in a vulnerable state. The Molapo farming system is threatened by the drying up of rivers. Most of the ecoregions are covered by the protected areas system except for the eastern part of the country.
- V) Please provide information on indicators used in relation to this target.

In determining the conservation status of each of the ecoregions several indicators and criteria were used to develop a priority rank amongst the different ecoregions. These were Protection Level, Species Richness, Endemism, Red Data species and value to the nation.

- VI) Please provide information on challenges in implementation of this target.
- While some ecosystems have been well studied, most other ecosystems have not been well studies and thus information on conservation status is lacking. There is a lack of capacity for the management of ecosystems is low.
- VII) Please provide any other relevant information.

#### Box XVII.

BOX AVII.									
Target 8.2	ihoods, local food naintained								
I) National target: Has a national target been established corresponding to the global target above?									
a) No									
b) Yes, the same as the global target									
c) Yes, one or more specific national targets have been established X									
Please provide details below.									

This target has been incorporated into several NBSAP objectives (1.3, 1.4, 1.9, 3.6, 4.9,)

Programme of work	Yes	No	Details
a) Agricultural	Х		This target is catered for in the NBSAP by Objective 3.8.1 implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 3.8.3 improve availability of traditional and improved seed varieties to smallholder and other farmers.
b) Inland water		Х	This target is not specifically addressed.

_					
c) Marine and coastal			N/A		
d) Dry and subhumid land		Х	This target is not specifically addressed.		
e) Forest		Х	This target is not specifically addressed.		
f) Mountain					
III) Has the global or national target been incorporated into relevant plans, programmes and strategies?					
·					

a)	No	
b)	Yes, into national biodiversity strategy and action plan	X
c)	Yes, into sectoral strategies, plans and programmes	

Please provide details below.

The NBSAP adequately addresses this target through several objectives. Objective 3.3.1 diversify and strengthen support to Community Based Natural Resources Management programmes; Objective 3.3.2 Re-establish Community Property Regimes including access to communal resources and develop a plan for Community Bases Strategies; Objective 3.3.3 integrate poverty alleviation measures in accordance with the Millenium Poverty Reduction Target and Vision 2016 into biodiversity conservation policies and programmes; Objective 3.7.3 develop community capacity to utilize natural resources in income generating activities and to secure access for sustainable use; Objective 3.8.1 implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 3.8.3 improve availability of traditional and improved seed varieties to smallholder and other farmers; Objective 2.4 needs of species, in particular threatened and endemic species should be addressed; Objective 2.5.2, which calls for development of propagation and harvesting protocols for key, traded animal and plant species are addressing this issue.

- IV) Please provide information on current status and trends in relation to this target.
- The Community Based Natural Resources Management programme being implemented through various government policies aims to encourage the sustainable use of natural resources by combining resources conservation and utilization of such product baskets, clay pots and wildlife.
- For wildlife based activities, communities are given quotas and in turn have to fulfill several requirements and responsibilities. For fisheries licenses are issued for subsistence, sport and commercial fishing while agricultural resources are controlled through a system of permits.
- Several plants with commercial potential are controlled using a permit system. Only mophane () and the grapple plant (*Harpagophytum procumbens*) are exploited at a significant level and overharvesting is unlikely.
- Crop agricultural biodiversity is threatened by factors such as drought, free seed distribution for drought recovery, which is usually characterized by exotic seed, lack of organized sources of traditional seeds.
- V) Please provide information on indicators used in relation to this target.

Indicators have not yet been set.

VI) Please provide information on challenges in implementation of this target.

This target has not been implemented yet and so there are no identified challenges.

VII) Please provide any other relevant information.

Box XVIII.						
Goal 9	Maintain	soci	o-cult	cural diversity of indigenous and lo	ocal communities.	
Target 9.1	Target 9.1 Protect traditional knowledge, innovations and practices					
I) National target: F	las a natior	nal tar	get be	een established corresponding to the g	lobal target above?	
a) No						
b) Yes, the same	as the glob	al tar	get			
c) Yes, one or mo	re specific	natior	nal tar	gets have been established	Х	
Please provide det	ails below.					
	e of indige			NBSAP into objective 1.3 Increased edge systems in biological resource		
				mes of work: If such national targe give further details in the box(es).	et(s) ha(s)(ve) been	
Programme of we	ork	Yes	No	Details		
a) Agricultural			Х			
b) Inland water			X			
c) Marine and coa	c) Marine and coastal N/A					
d) Dry and subhu	d) Dry and subhumid land X					
e) Forest			х			
f) Mountain				N/A		
III) Has the global strategies?	or nationa	al tarç	get be	een incorporated into relevant plan	s, programmes and	
a) No						
b) Yes, into nation	nal biodiver	sity s	trateg	y and action plan	Х	
c) Yes, into secto	ral strategi	es, pla	ans ar	nd programmes		
Please provide det	ails below.					
This target has been incorporated into the NBSAP through Objective 2.8.1 establish an indigenous knowledge policy; Objective 7.3.2 develop a national policy framework on IK with special provision for traditional medicine research and use.						
IV) Please provide information on current status and trends in relation to this target.						
There is no policy or law for the protection of indigenous knowledge. Other means of protecting IK are not well known or explored.						
A multi Sectoral Task Force on Indigenous Knowledge is attempting to rectify the situation. The Task Force is attempting to integrate IK into existing PR legislation as an interim measure for the protection of IK.						
V) Please provide information on indicators used in relation to this target.						
Very little has been o	lone on this	s targe	et and	I so there are no indicators yet.		
VI) Please provide information on challenges in implementation of this target.						

The lack of a policy and law for the protection of indigenous knowledge is a problem. Also, the uncoordinated approach to documentation of indigenous knowledge hampers efforts to protect it. Lack of trained personnel in this area is also a problem.							
VII) Please provide any	other releva	nt infor	mation.				
Box XIX.							
Target 9.2 Protect the rights of indigenous and local communities over their traditional knowledge, innovations and practices, including their rights to benefit sharing							
I) National target: Has	s a national t	arget be	een established corresponding to the g	plobal target above?			
a) No							
b) Yes, the same as	the global t	arget					
c) Yes, one or more	specific nati	onal tar	gets have been established	Х			
Please provide detail	s below.						
The NBSAP covers this	in objectives	2 and	3				
II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).							
Programme of wor	k Ye	s No	Details				
a) Agricultural	x		This target is covered under Objection of mechanisms for the protection of including landraces linked with Rights and Objective 3.8.5 en traditional varieties and strains/ b crops for special uses and Objective awareness about the value of colocally adapted breeds and promosystems.	plant breeders rights Intellectual Property courage the use of reeds of livestock and bjective 3.8.2 create genetic diversity and			
b) Inland water	b) Inland water  This is covered in Objective 3.6.2 of the NBSAP which ca for implementation of the wetlands strategy and the increased community participation in wetlan management and planning.						
c) Marine and coast							
d) Dry and subhum	id land	x					
e) Forest		х					
f) Mountain			N/A				
III) Has the global or national target been incorporated into relevant plans, programmes and strategies?							
a) No							

c) Yes, into sectoral strategies, plans and programmes

Please provide details below.

This target has been incorporated into the NBSAP through the following objectives. Objective 2.6.7 develop mechanisms for the protection of plant breeders rights including landraces linked with Intellectual Property Rights; Objective 3.8.5 encourage the use of traditional varieties and strains/ breeds of livestock and crops for special uses; Objective 3.8.2 create awareness about the value of genetic diversity and locally adapted breeds and promote indigenous farming systems; Objective 2.8.1 establish an indigenous knowledge policy; Objective 6.1.3 Incorporate biodiversity awareness, the importance of maintaining biodiversity and related indigenous knowledge into the national curriculum; Objective 6.1.5 encourage community skill transfer workshops on indigenous knowledge and traditional practices.

IV) Please provide information on current status and trends in relation to this target.

Protection of indigenous knowledge is quite low in Botswana. Not much work has been done to document indigenous knowledge.

V) Please provide information on indicators used in relation to this target.

Not much work has been done on this target and so there are no indicators yet.

VI) Please provide information on challenges in implementation of this target.

The lack of a policy and law for the protection of indigenous knowledge is a problem. Also, the uncoordinated approach to documentation of indigenous knowledge hampers efforts to protect it.

VII) Please provide any other relevant information.

#### Box XX.

Goal 10	arising out of the							
Target 10.1  All transfers of genetic resources are in line with the Convention Biological Diversity, the International Treaty on Plant General Resources for Food and Agriculture and other applicable agreements								
I) National target: Has a national target been established corresponding to the global target above?								
a) No								
b) Yes, the same as the global target								
c) Yes, one or more specific national targets have been established X								
Please provide details below.								

This target is articulated in the NBSAP objective 7: Fair access to biological resources and equitable sharing of benefits arising from the use of biological resources.

Programme of work	Yes	No	Details
a) Agricultural		Х	
b) Inland water		x	

	1			I			
c)	Marine and coastal			N/A			
d)	Dry and subhumid land		Х				
e)	Forest		Х				
f)	Mountain			N/A			
	las the global or nationa trategies?	l tarç	get be	een incorporated into relevant plan	s, programmes and		
a)	No						
b)	Yes, into national biodiver	sity s	trateg	y and action plan	X		
c)	Yes, into sectoral strategic	es, pla	ans an	d programmes			
Ple	ase provide details below.						
This target is articulated in the NBSAP in Objective 7.1.4 which states that all transfers of genetic resources are in line with the Convention on Biological Diversity, the International Treaty on Plant Genetic Resources for Food and Agriculture and other applicable international and regional agreements and standards.							
IV) Please provide information on current status and trends in relation to this target.							
V) P	lease provide information	on ind	icator	s used in relation to this target.			
No in	No indicators have been developed yet.						
VI) Please provide information on challenges in implementation of this target.							
VII) Please provide any other relevant information.							

#### Box XXI.

Target 10.2	et 10.2 Benefits arising from the commercial and other utilization of genetic resources shared with the countries providing such resources							
I) National target: Has a national target been established corresponding to the global target above?								
a) No	a) No							
b) Yes, the same	b) Yes, the same as the global target							
c) Yes, one or more specific national targets have been established X								
Please provide details below.								
This has been incorporated into the NBSAP in objective 7.3								

	II) National targets for specific programmes of work: If such national target(s) ha(s)(ve) been established, please indicate here, and give further details in the box(es).						
Pro	ogramme of work	Yes	No	Details			
a)	Agricultural		X				
b)	Inland water		X				
c)	Marine and coastal			N/A			
d)	Dry and subhumid land		x				
e)	Forest		X				
f)	Mountain			N/A			
	Has the global or national strategies?	ıl tar	get be	een incorporated into relevant plar	s, programmes and		
a)	No						
b)	Yes, into national biodiver	sity s	trateg	y and action plan	X		
c)	c) Yes, into sectoral strategies, plans and programmes						
Ple	Please provide details below.						
The NBSAP addresses this target through the following objectives. Objective 7.1.1 calls for the development of a ABS strategy and in the mean time that Material Transfer agreements should be used; Objective 7.1.2 calls for the establishment of bioprospecting, access and benefit sharing guidelines; Objective 7.3.3 calls for the availability of guidelines on access and benefit sharing.							
IV) Please provide information on current status and trends in relation to this target.							
The law on access to genetic resources is uncoordinated and fragmented. There are various acts that relate to access both in-situ and ex-situ, there are regulatory mechanisms for the collection of biological resources within their natural environments or habitats but it is clear that current legislation on access and benefit sharing is inadequate. Currently local communities do not receive adequate benefits for the genetic resources they harvest. In fact for most veld products the cost for harvesting the resources is higher than the income it generates. There is currently no equity in the sharing of benefits as traders and middlemen sell on the resources for much higher prices.							
V) Please provide information on indicators used in relation to this target.							
No indicators have been developed yet.							
VI) Please provide information on challenges in implementation of this target.							
The main challenge in implementing this target is the lack of a comprehensive ABS law or policy.							
VII) Please provide any other relevant information.							

Box XXII.						
Goal 11				oroved financial, hu acity to implement th		
Target 11.1  New and additional financial resources are transferred to developing country Parties, to allow for the effective implementation of their commitments under the Convention, in accordance with Article 20						
I) National target: Ha	s a nationa	al tarç	get be	en established correspo	onding to the g	llobal target above?
a) No						
b) Yes, the same as	s the globa	al tar	get			
c) Yes, one or more	e specific r	nation	al tar	gets have been establis	shed	X
Please provide detai	Is below.					
This is catered for in the the BSAP.	ne NBSAP	objec	tive 1	1.4 Sustainable financi	ial provisions fo	or implementation of
				mes of work: If such give further details in th		et(s) ha(s)(ve) been
Programme of wor	·k	Yes	No		Details	
a) Agricultural			X			
b) Inland water			X			
c) Marine and coas	tal			N/A		
d) Dry and subhum	d) Dry and subhumid land X					
e) Forest			Х			
f) Mountain				N/A		
III) Has the global o strategies?	r national	targ	jet be	een incorporated into	relevant plan	s, programmes and
a) No						
b) Yes, into nationa	l biodivers	sity st	rateg	y and action plan		Х
c) Yes, into sectora	I strategie	s, pla	ıns ar	d programmes		
Please provide detai	ls below.					
In Objective 11.4.1 the NBSAP calls for a review of existing financing mechanisms and the development of funding strategy for the BSAP and Objective 11.4.2 calls for the strengthening of biodiversity funding mechanisms and communication of funding priorities to external donors.						
IV) Please provide information on current status and trends in relation to this target.						
N/a						
V) Please provide info	V) Please provide information on indicators used in relation to this target.					
N/a	N/a					
VI) Please provide information on challenges in implementation of this target.						

N/a				
VII) lease provide any other relevant information.				
Box XXIII.				
Target 11.2	the effective	e im	nsferred to developing country Pa plementation of their commitr ordance with its Article 20, paragr	nents under the
I) National target: H	as a national tar	get be	een established corresponding to the g	lobal target above?
a) No				Х
b) Yes, the same	as the global tar	get		
c) Yes, one or mo	re specific natior	nal tar	gets have been established	
Please provide deta	ails below.			
IIX N. II	. ''		C 1 1C 1 11 1 1	
			mes of work: If such national targe give further details in the box(es).	et(s) ha(s)(ve) been
Programme of wo	Programme of work Yes No Details			
a) Agricultural		x		
b) Inland water		Х		
c) Marine and coa	stal		N/A	
d) Dry and subhu	mid land	X		
e) Forest		X		
f) Mountain			N/A	
III) Has the global strategies?	or national tar	get be	een incorporated into relevant plan	s, programmes and
a) No				X
b) Yes, into nation	nal biodiversity s	trateg	y and action plan	
c) Yes, into sectoral strategies, plans and programmes				
Please provide details below.				
IV) Please provide information on current status and trends in relation to this target.				

V) Please provide information on indicators used in relation to this target.		
VI) Please provide information on challenges in implementation of this target.		
VII) Please provide any other relevant information.		

#### Global Strategy for Plant Conservation (GSPC)

The Conference of the Parties, in decision VI/9, annex, adopted the Global Strategy for Plant Conservation. Parties and Governments are invited to develop their own targets with this flexible framework. The Conference of the Parties considered the Strategy as a pilot approach for the use of outcome oriented targets under the Convention. In decision VII/10, the Conference of the Parties decided to integrate the targets into the reporting framework for the Third National Reports. Please provide relevant information by responding to the questions and requests contained in the following tables.

#### Box XXIV.

Target 1. A widely accessible working list of known plant species, as a step towards a complete world flora.		
I) Has your country established national target corresponding to the above global target?		
a) Yes	х	
b) No		
Please specify		
The NBSAP Objective 1.1.1 sets a target for establishing institutional responsibilities for collection and maintenance of biodiversity data including flora.		
II) Has your country incorporated the above global or national target into relevant plans, programmes and strategies?		
a) Yes	X	
b) No		
Please specify		
This is incorporated in the NBSAP as mentioned above.		
III) Current status (please indicate current status related to this target)		

Some programmes are currently ongoing for example through the Southern Africa Botanical Diversity Network, University of Botswana, National Herbarium, SABONET will be producing a national checklist of flowering plants and bryophytes based on existing herbarium specimens and will reflect current knowledge of the flora. The Department of Agriculture is also carrying out some work on wild relatives of crop species while the Millenium Seed Bank Project is collecting wild plants that are either endangered, endemic or threatened.

IV) Measures taken to achieve target (please indicate activities, legislative measures and other steps taken with a view to achieve the target)

The NBSAP has only recently been completed and so no implementation has taken place.

Progress made towards target (please specify indicators used to monitor progress towards the target)

The NBSAP has only recently been completed and so no implementation has taken place.

VI) Constraints to achieving progress towards the target

The NBSAP has only recently been completed and so no implementation has taken place.

VII) Any other relevant information

target)

Box XXV.			
Target 2. A preliminary assessment of the conservation status of all known at national, regional and international levels.	plant species,		
I) Has your country established national target corresponding to the above global ta	arget?		
a) Yes	X		
b) No			
Please specify			
The NBSAP Objective 2.4.1 sets a target to establish the conservation status for all replant taxa in Botswana.	najor animal and		
II) Has your country incorporated the above global or national target into relevant programmes and strategies?	olans,		
a) Yes	X		
b) No			
Please specify			
The target has been incorporated into the NBSAP as mentioned in I) above.			
III) Current status (please indicate current status related to this target)			
The NBSAP has only recently been completed and so no implementation has taken p	ace.		
<ul> <li>IV) Measures taken to achieve target (please indicate activities, legislative measure steps taken with a view to achieve the target)</li> </ul>	s and other		
The NBSAP has only recently been completed and so no implementation has taken p	ace.		

Progress made towards target (please specify indicators used to monitor progress towards the

The NBSAP has only recently been completed and so no implementation h	nas taken place.	
VI) Constraints to achieving progress towards the target		
The NBSAP has only recently been completed and so no implementation h	nas taken place.	
VII) Any other relevant information		
VII) / Any other relevant information		
Box XXVI.		
Target 3. Development of models with protocols for plant consuuse, based on research and practical experience.	ervation and sustainable	
I) Has your country established national target corresponding to the abo	ove global target?	
a) Yes		
b) No	X	
Please specify		
Has your country incorporated the above global or national target int programmes and strategies?	to relevant plans,	
a) Yes		
b) No	X	
Please specify		
Although this specific target has not been incorporated into any national to several related targets for example Objective 2.4.3 support and promote conservation activities for rare, threatened and endemic species, Objective propagation and harvesting protocols for key animal and plant species with	in-situ and ex-situ /e 2.5.2 Develop	
III) Current status (please indicate current status related to this target)		
No work has been done on this target.		
IV) Measures taken to achieve target (please indicate activities, legislative steps taken with a view to achieve the target)	e measures and other	
No work has been done on this target.		
V) Progress made towards target (please specify indicators used to mor target)	nitor progress towards the	
No work has been done on this target		
VI) Constraints to achieving progress towards the target		
No work has been done on this target.		
VII) Any other relevant information		

Box XXVII.			
Target 4. At least ten percent of each of the world's ecological reconserved.	gions effectively		
I) Has your country established national target corresponding to the above glo	bal target?		
a) Yes	Х		
b) No			
Please specify			
The National Biodiversity Strategy and Action Plan (NBSAP) has effectively cate objective under several specific targets for example Objective 2.2 establishes the comprehensive protected area network to conserve ecosystems and species.			
II) Has your country incorporated the above global or national target into releprogrammes and strategies?	vant plans,		
a) Yes	Х		
b) No			
Please specify			
Objective 2.2 of the NBSAP identifies the need for a comprehensive protected area network to conserve ecosystems and species; this includes taking Important Plant Areas and Important Bird Areas into consideration. Objective 2.3 establishes the need for effective ecosystems management practices including a review of current national and regional land management systems. Under Objective 2.7 the NBSAP calls for the rehabilitation of restoration or degraded ecosystems and habitats.			
III) Current status (please indicate current status related to this target)			
The National Stocktaking Exercise for the NBSAP identified seven ecoregions according to the WWF ecoregions criteria. These are the Zambezian Flooded Grasslands, Zambezian Halophytics, Zambezian and Mopane Woodlands, Kalahari Acacia, Kalahari Xeric Savanna, South Africa Bushveld, Zambezia Baikiaea Woodlands. The Zambezian Flooded Grasslands, Zambezian and Mopane Woodlands and the Kalahari Xeric Savanna ecoregions are in a stable and intact state. The other four ecoregions are in a vulnerable state i.e. Zambezia Baikiaea Woodlands (cattle and overgrazing and change in vegetation communities), South Africa Bushveld (deforestation, overgrazing, range degradation, fire and poaching), Kalahari Acacia (increased cattle ranching, land transformation and degradation, fire, climate change and poaching); and Zambezian Halophytics (mining, rangeland degradation, fire, wind erosion, water extraction, algae blooms, overgrazing, lack of protection for critical avian breeding sites and poaching).			
IV) Measures taken to achieve target (please indicate activities, legislative measures taken with a view to achieve the target)	asures and other		
According to the IUCN guidelines on Protected Areas, protected areas in the form of national parks, game reserves, wildlife management areas and controlled hunting areas cover 45% of the country. Most of the ecoregions are adequately covered by the protected areas network except for those in the east of the country.			
V) Progress made towards target (please specify indicators used to monitor protection the target)	rogress towards		
VI) Constraints to achieving progress towards the target			
There is no <b>nationally agreed</b> ecosystem/ ecoregions classification system which makes it difficult to inventory or monitor ecoregions. This is further complicated by the low level of data/information on ecosystems. The country urgently needs an ecosystem/ ecoregions inventory. Nationally agreed indicators for use in monitoring ecosystems need to be developed.			

VII) Any other relevant information		
Box XXVIII.		
Target 5. Protection of ffty percent of the most important assured.	it areas f	or plant diversity
Has your country established national target corresponding to the	e above glo	bbal target?
a) Yes		Х
b) No		
Please specify		
The target is addressed by Objective 2.2.3 in the NBSAP which calls to important plant areas and Important Bird Areas and for these to be I system.		
II) Has your country incorporated the above global or national target programmes and strategies?	et into rele	vant plans,
a) Yes		X
b) No		
Please specify		
This target is included into the NBSAP as mentioned above.		
III) Current status (please indicate current status related to this targ	get)	
Botswana has not yet identified Important Plant Areas and this will only be possible after a national flora inventory has been conducted. This is a long term goal for Botswana.		
<ul><li>IV) Measures taken to achieve target (please indicate activities, legi steps taken with a view to achieve the target)</li></ul>	slative mea	asures and other
This has not yet been done. So far only a target has been set but as the NBSAP is underway this target will be attended to.	soon as the	e implementation of
V) Progress made towards target (please specify indicators used to target)	monitor p	rogress towards the
The target will be addressed through the NBSAP which is due to be implemented soon.		
VI) Constraints to achieving progress towards the target		
Lack of a national inventory, lack of information and low taxonomic capacity are the major constraints in achieving this target.		
VII) Any other relevant information		

## Box XXIX.

Target 6. At least thirty percent of production lands managed consistent with the conservation of plant diversity.		
I) Has your country established national target corresponding to the above glo	bal target?	
a) Yes	Х	
b) No		
Please specify		
The NBSAP identified targets for the management of production lands e.g. Objectonservation of agricultural diversity and Objective 3.8 Sustainable use of agrob		
II) Has your country incorporated the above global or national target into releven programmes and strategies?	vant plans,	
a) Yes	X	
b) No		
Please specify		
This target has been incorporated into the NBSAP under the following objectives. Objective 2.6.5 Develop models and approaches which promote a living landscape and in-situ preservation of agrobiodiversity at species and genotype level. Subsequently, actively promote and support the adoption and implementation of biodiversity friendly farming systems; Objective 3.8.1 Implement a programme and strategy for maintenance of agrobiodiversity and identify and promote best practices.		
III) Current status (please indicate current status related to this target)		
Although not much work has been done on agricultural landscapes it would seen regions are intact. More inventory and monitoring work needs to be done however clearer picture of the status of agricultural regions.		
IV) Measures taken to achieve target (please indicate activities, legislative measures taken with a view to achieve the target)	asures and other	
Implementation of this target has not begun yet but it is anticipated that when implemented then this target will be addressed.	the NBSAP is	
V) Progress made towards target (please specify indicators used to monitor protection the target)	rogress towards	
This target has not been implemented yet.		
VI) Constraints to achieving progress towards the target		
VII) Any other relevant information		

Box XXX.		
Target 7. Sixty percent of the world's threatened species conserved In-	situ.	
I) Has your country established national target corresponding to the above glo	bbal target?	
a) Yes	Х	
b) No		
Please specify		
This target is catered for in the NBSAP.		
II) Has your country incorporated the above global or national target into releprogrammes and strategies?	vant plans,	
a) Yes	X	
b) No		
Please specify		
The NBSAP is addressing this target through the following objectives. Objective 2.4 – the needs of species in particular threatened and endemic species should be addressed, Objective 2.5 conservation of agricultural biodiversity, Objective 2.5 - effective management systems for nodomesticated economically important species in place.		
III) Current status (please indicate current status related to this target)		
For plants, there are 43 Red Data species, 2 endangered species, 10 vulnerable species and 8 near threatened species. In-situ conservation of these species is through national parks, game reserves, botanical monuments and private game reserves. Protected areas cover 45% of Botswana's area through a good network. All commercially exploited plants as well as those with commercial potential are protected by law and require harvesting permits.		
IV) Measures taken to achieve target (please indicate activities, legislative measteps taken with a view to achieve the target)	asures and other	
V) Progress made towards target (please specify indicators used to monitor pleaset)	rogress towards the	
As mentioned before, Botswana has a comprehensive network of protected areas and most areas that are important for plant conservation are covered by this network (except in the eastern parts of the country).		
VI) Constraints to achieving progress towards the target		
Constraints in achieving this target include limited data, limited ex-situ collections and facilities, lack of surveys, lack of nationally agreed criteria and indicators, limited spatial data and limited data on micro-organisms, fungi and invertebrates.		
VII) Any other relevant information		

## Box XXXI.

Target 8. Sixty percent of threatened plant species in accessible <i>Ex-situ</i> collections, preferably in the country of origin, and 10 percent of them included in recovery and restoration programmes.		
I) Has your country established national target corresponding to the above global ta	rget?	
a) Yes	Х	
b) No		
Please specify		
This target is being addressed by the NBSAP as mentioned below.		
II) Has your country incorporated the above global or national target into relevant programmes and strategies?	olans,	
a) Yes	Х	
b) No		
Please specify		
The NBSAP is addressing this target through the following objectives. Objective 2.4 – the needs of species in particular threatened and endemic species should be addressed, Objective 2.5 conservation of agricultural biodiversity, Objective 2.5 – effective management systems for nodomesticated economically important species in place.		
III) Current status (please indicate current status related to this target)		
For plants, there are 43 Red Data species, 2 endangered species, 10 vulnerable spetthreatened species.	ecies and 8 near	
There are limited ex-situ conservation activities in the country. The National Botanical Gardens maintain an incomplete collection of indigenous plants in its gardens in Gaborone. Seed collections (not complete also) are held by the Department of Agricultural Research and some international centres. There are four herbaria in the country: the National Herbarium, University Herbarium, the Peter Smith Herbarium and the Ministry of Agriculture Herbarium. The actual number of Botswana specimens held outside the country is unknown.		
IV) Measures taken to achieve target (please indicate activities, legislative measures steps taken with a view to achieve the target)	and other	
Work on this target has not been started yet but will begin once the NBSAP is being implemented.		
V) Progress made towards target (please specify indicators used to monitor progres target)	ss towards the	
Work on this target has not been started yet but will begin once the NBSAP is being in	mplemented.	
VI) Constraints to achieving progress towards the target		
Work on this target has not been started yet but will begin once the NBSAP is being implemented.		
VII) Any other relevant information		

#### Box XXXII.

Target 9. Seventy percent of the genetic diversity of crops and other major socio- economically valuable plant species conserved, and associated indigenous and local knowledge maintained.			
I) Has your country established national target corresponding to the above glo	bal target?		
a) Yes	Х		
b) No			
Please specify			
This target is incorporated into the NBSAP as mentioned below.			
II) Has your country incorporated the above global or national target into releprogrammes and strategies?	vant plans,		
a) Yes	Х		
b) No			
Please specify			
The NBSAP makes provision for this programme of work under the following objectives. Objective 2.6.2 – development of a database containing the distribution of species, varieties strains and conservation status. Objective 2.6.3 – the design and implementation of collecting programmes for ex-situ preservation of Agrobiodiversity, Objective 2.6.6 – involvement of the community in in-situ conservation, Objective 2.4 of the NBSAP and Objective 2.5.2, which calls for development of propagation and harvesting protocols for key, traded animal and plant species are addressing this issue.			
III) Current status (please indicate current status related to this target)			
Botswana is still rich in Agrobiodiversity predominantly in the subsistence agricultural sector. The commercial sector is characterized by exotic livestock and hybrid/ improved cultivars. Traditional agriculture is threatened by factors such as drought, free seed distribution for drought recovery, which is usually characterized by exotic seed, lack of organized sources of traditional seeds. There are 28 species of crops and Botswana is a secondary centre of diversity for the Citrillus spp and a primary center of diversity for the Vigna spp. There are several species of livestock in Botswana. Of the 11 species of cattle 50% are thought to be endemic 2 of which are under severe threat because of cross breeding and neglect.			
IV) Measures taken to achieve target (please indicate activities, legislative measteps taken with a view to achieve the target)	asures and other		
Work on this target has not been started yet but will begin once the NBSAP is bimplemented.	eing		
V) Progress made towards target (please specify indicators used to monitor protection the target)	rogress towards		
Work on this target has not been started yet but will begin once the NBSAP is b implemented.	eing		
VI) Constraints to achieving progress towards the target			
Constraints in achieving this target include limited data, limited ex-situ collections and facilities, lack of surveys, lack of nationally agreed criteria and indicators, limited spatial data and limited data on micro-organisms, fungi and invertebrates.			
VII) Any other relevant information			

#### Box XXXIII.

Target 10. Management plans in place for at least 100 major alien species that threaten plants, plant communities and associated habitats and ecosystems.		
I) Has your country established national target corresponding to the above glo	bal target?	
a) Yes	Х	
b) No		
Please specify		
This target is catered for under the NBSAP as mentioned below.		
II) Has your country incorporated the above global or national target into releven programmes and strategies?	vant plans,	
a) Yes	Х	
b) No		
Please specify		
The target has been articulated in the NBSAP through objective 5.6.4 prepare a policy and related measures with the aim to prevent introduction and spread of promoting the use of indigenous species;		
III) Current status (please indicate current status related to this target)		
There is currently no legislation on IAS in Botswana. Also there is no mechanism in place to control introduction of IAS into the country. The subject has not been well studied in the country and so occurrence of IAS is not known apart from those species that have been identified as IAS in neighboring countries. There is very little action on IAS in the country except in the north of the country where the Aquatic Vegetation Control Unit is managing aquatic weeds such as <i>Salvinia</i> . According to the National Stocktaking Report, there are 72 different species of IAS in Botswana. Invasive aliens are not yet seen to be a major threat to biodiversity in Botswana although the levels of invasion are not known.		
IV) Measures taken to achieve target (please indicate activities, legislative measures taken with a view to achieve the target)	asures and other	
There is some legislation to control the introduction of some aquatic and noxious weeds but this is all. More needs to be done in this areas and this will be addressed with the implementation of the NBSAP which calls for the formulation of a strategy on IAS.		
V) Progress made towards target (please specify indicators used to monitor protection the target)	ogress towards	
Invasive aliens are not sufficiently studied or monitored so most of the informat target is gathered from neighboring countries.	tion relating to this	
VI) Constraints to achieving progress towards the target		
The lack of a proper inventory and monitoring system and nationally agreed criteria is a major problem. So too is the lack of a proper IAS strategy and policy as well as trained personnel in this area.		
VII) Any other relevant information		

#### Box XXXIV

Tar	get 11. No species of wild flora endangered by international trade.							
Has your country established national target corresponding to the above global target?								
	a) Yes							
	b) No	Х						
	Please specify							
	arget has not yet been established but in the interim, wild and endangered for arious legal instruments and regulations.	lora, are pr	rotected					
II)	Has your country incorporated the above global or national target into releven programmes and strategies?	ant plans,						
	a) Yes							
	b) No	Х						
	Please specify							
III)	Current status (please indicate current status related to this target)							
	•							
IV)	Measures taken to achieve target (please indicate activities, legislative measteps taken with a view to achieve the target)	asures and	other					
	3 /							
V)	Progress made towards target (please specify indicators used to monitor pr	ogress tow	ards					
	the target)							
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
VI)	Constraints to achieving progress towards the target							
VIII	Any other relevant information							
V11)	Any other relevant information							
<u> </u>								
Вох	xxxv.							
Target 12. Thirty percent of plant-based products derived from sources that are sustainably managed.								
I)	Has your country established national target corresponding to the above glo	bal target?						
	a) Yes		X					
	b) No							
	Please specify							

The target is incorporated into the NBSAP as mentioned below.					
II) Has your country incorporated the above global or national target into relevant plan programmes and strategies?	ns,				
a) Yes	Χ				
b) No					
Please specify					
This target has been incorporated into the NBSAP under the following Objectives. Objective 2.6.1 determining the availability and distribution of agrobiodiversity in Botswana and identify farming systems which sustain high diversity; Objective 2.6.5 Develop models and approaches which promote a living landscape and in-situ preservation of agrobiodiversity at species and genotype levels. Subsequently actively promote and support the adoption and implementation of biodiversity friendly farming; Objective 3.8.1 Implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 2.6.1 Determine availability and distribution of agrobiodiversity and identify farming systems that sustain high diversity; Objective 2.3.2 review current national and regional land management systems and land uses in terms of effectiveness in biodiversity conservation; Objective 3.4.5 Promote and establish a network of fuelwood plantations and community woodlots using indigenous species.					
III) Current status (please indicate current status related to this target)					
The Community Based Natural Resources Management programme being implemented through various government policies aims to encourage the sustainable use of natural resources by combining resources conservation and utilization of such product baskets, clay pots and wildlife. Several plants with commercial potential are controlled using a permit system. Only mophane () and the grapple plant (Harpagophytum procumbens) are exploited at a significant level and overharvesting is unlikely.					
IV) Measures taken to achieve target (please indicate activities, legislative measures at steps taken with a view to achieve the target)	ind other				
Work on this target has not begun.					
V) Progress made towards target (please specify indicators used to monitor progress target)	towards the				
Not much has been done in this area and so there is a shortage of data. Inventory and very low and nationally agreed criteria have not been developed yet.	monitoring is				
VI) Constraints to achieving progress towards the target					
VII) Any other relevant information					

#### Box XXXVI

DOX AAAVI.					
Target 13. The decline of plant resources, and associated indigenous and local knowledge, innovations and practices that support sustainable lvelihoods, local food security and health care, halted.					
I) Has your country established national target corresponding to the above global ta	rget?				
a) Yes	Х				
b) No					
Please specify					
II) Has your country incorporated the above global or national target into relevant programmes and strategies?	olans,				
a) Yes	X				
b) No					
Please specify					
The NBSAP adequately addresses this target through several objectives. Objective 3.3.1 diversify and strengthen support to Community Based Natural Resources Management programmes; Objective 3.3.2 Re-establish Community Property Regimes including access to communal resources and develop a plan for Community Bases Strategies; Objective 3.3.3 integrate poverty alleviation measures in accordance with the Millenium Poverty Reduction Target and Vision 2016 into biodiversity conservation policies and programmes; Objective 3.7.3 develop community capacity to utilize natural resources in income generating activities and to secure access for sustainable use; Objective 3.8.1 implement programme and strategy for maintenance of agrobiodiversity and identify and promote best practices; Objective 3.8.3 improve availability of traditional and improved seed varieties to smallholder and other farmers; Objective 2.4 needs of species, in particular threatened and endemic species should be addressed; Objective 2.5.2, which calls for development of propagation and harvesting protocols for key, traded animal and plant species are addressing this issue.					
III) Current status (please indicate current status related to this target)					
The Community Based Natural Resources Management programme being implemented through various government policies aims to encourage the sustainable use of natural resources by combining resources conservation and utilization of such product baskets, clay pots and wildlife. Several plants with commercial potential are controlled using a permit system. Only mophane () and the grapple plant (Harpagophytum procumbens) are exploited at a significant level and overharvesting is unlikely.  Crop agricultural biodiversity is threatened by factors such as drought, free seed distribution for drought recovery, which is usually characterized by exotic seed, lack of organized sources of traditional seeds.					
IV) Measures taken to achieve target (please indicate activities, legislative measures steps taken with a view to achieve the target)	and other				
This target has not been implemented yet.					
V) Progress made towards target (please specify indicators used to monitor progres target)	ss towards the				
This target has not been implemented yet.					

VI)	Constraints to achieving progress towards the target	
This	s target has not been implemented yet.	
VII)	Any other relevant information	
Зох	XXXVII.	
	get 14. The importance of plant diversity and the need for its conservation communication, educational and public-awareness programmes.	incorporated
I)	Has your country established national target corresponding to the above global tar	get?
	a) Yes	X
	b) No	
	Please specify	
This	s target is catered for in the NBSAP	
II)	Has your country incorporated the above global or national target into relevant plants programmes and strategies?	ans,
	a) Yes	Х
	b) No	
	Please specify	
bioo the	s target is included in the NBSAP under Objective 6.1.1 develop and implement a nadiversity awareness and advocacy strategy aimed at all levels of society; Objective botanical gardens establish medicinal plant gardens to encourage further developn wledge and skills associated with the local use of medicinal plants.	6.1.6 within
III)	Current status (please indicate current status related to this target)	
This	s target has not been implemented yet.	
IV)	Measures taken to achieve target (please indicate activities, legislative measures steps taken with a view to achieve the target)	and other
This	s target has not been implemented yet.	
V)	Progress made towards target (please specify indicators used to monitor progress target)	s towards the
This	s target has not been implemented yet.	
VI)	Constraints to achieving progress towards the target	
This	s target has not been implemented yet.	
VII)	Any other relevant information	

#### Box XXXVIII.

Target 15. The number of trained people working with appropriate facilities in plant conservation increased, according to national needs, to achieve the targets of this Strategy.						
Has your country established national target corresponding to the above global target?						
a) Yes	Х					
b) No						
Please specify						
This target has been incorporated into the NBSAP.						
II) Has your country incorporated the above global or national target into releven programmes and strategies?	vant plans,					
a) Yes	X					
b) No						
Please specify						
The target has been included into the NBSAP through the following objectives. Objective 4.3.6 calls for the review of taxonomic and bio-systematics capacity and infrastructure as well as adequate funding; Objective 4.3.8 calls for active training to fill gaps in biodiversity management; Objective 4.4.1 calls for the development of comprehensive ex-situ genetic resources programmes; Objective 4.4.2 sets out measures for the strengthening of human capacity and infrastructure in existing herbaria, museums, national parks and gene banks.						
III) Current status (please indicate current status related to this target)						
Currently biodiversity expertise especially in the area of taxonomy and bio-systematic is low and is limited to the University, herbaria, museum and Department of Agricultural Research. Facilities are also poor and there are a very few that are well established or well equipped.						
IV) Measures taken to achieve target (please indicate activities, legislative measures and other steps taken with a view to achieve the target)						
This target will be implemented when the NBSAP is implemented.						
V) Progress made towards target (please specify indicators used to monitor progress towards the target)						
This target has not been implemented yet.						
VI) Constraints to achieving progress towards the target						
This target has not been implemented yet.						
VII) Any other relevant information						

#### Box XXXIX

DOX AXXIX.	
Target 16. Networks for plant conservation activities established or str national, regional and international levels.	engthened at
I) Has your country established national target corresponding to the above global tar	get?
a) Yes	Х
b) No	
Please specify	
This is catered for in the NBSAP.	
II) Has your country incorporated the above global or national target into relevant pl programmes and strategies?	ans,
a) Yes	х
b) No	
Please specify	
The NBSAP calls for the appointment and establishment of national and regional centrol for key biodiversity groups (Objective 4.3.3) and the compilation of a register of nation regional expertise in bio-systematics (Objective 4.3.7).	
III) Current status (please indicate current status related to this target)	
This is already on-going. Examples of these networks are the Southern African Botanic Network (SABONET) which is a regional network aimed at increasing knowledge and c botanical diversity. Several publications have arisen out of this network. The SADC Bic Support Programme (SADC-BSP) is also working to establish national centres of excell roster of experts in the areas of Invasive Alien Species and Access and Benefit Sharing	apacity in diversity lence and
IV) Measures taken to achieve target (please indicate activities, legislative measures steps taken with a view to achieve the target)	and other
As mentioned above activities such as SABONET and the SADC-BSP are underway.	
V) Progress made towards target (please specify indicators used to monitor progress target)	s towards the
Some networks are in place as well as registers/ directories of experts. A lot of work n done though.	eeds to be
VI) Constraints to achieving progress towards the target	
Limited capacity in the areas of bio-systematics and taxonomy are a constraint in implantaget. So too is the lack of proper facilities.	ementing this
VII) Any other relevant information	

#### Box XL.

Please elaborate below on the implementation of this strategy specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;

guidance contained in the annex to decision V/6? (decision V/6)

- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Largely this strategy has not been implemented yet. The priority has been the development of the NBSAP as a framework for biodiversity management. Subsequently the NBSAP will be used to set priorities for action and it is anticipated that once the NBSAP is in place the strategy will be implemented.

#### **Ecosystem Approach**

The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way. Application of the ecosystem approach will help to reach a balance of the three objectives of the Convention. At its second meeting, the Conference of the Parties has affirmed that the ecosystem approach is the primary framework for action under the Convention (decision II/8). The Conference of the Parties, at its fifth meeting, endorsed the description of the ecosystem approach and operational guidance and recommended the application of the principles and other guidance on the ecosystem approach. The seventh meeting of the Conference of the Parties agreed that the priority at this time should be facilitating implementation of the ecosystem approach. Please provide relevant information by responding to the following questions.

3. ? 1 Is your country applying the ecosystem approach, taking into account the principles and

a) No	
b) No, but application is under consideration	X
c) Yes, some aspects are being applied	
d) Yes, substantially implemented	
4. 2 Is your country developing practical expressions of the ecosystem appolicies and legislation and for implementation activities, with adaptation to regional conditions? (decision V/6)	
a) No	
b) No, but development is under consideration	Х
c) Yes, practical expressions have been developed for applying some principles of the ecosystem approach	
principles of the ecosystem approach	
d) Yes, practical expressions have been developed for applying most principles of the ecosystem approach	

<sup>&</sup>lt;sup>1</sup> Please note that all the questions marked with ? have been previously covered in the second national reports and some thematic reports.

<b>5.</b> Is your country strengthening capacities for the application of the ecosystem approach, and providing technical and financial support for capacity-building to apply the ecosystem approach? (decision V/6)						
a) No	Х					
b) Yes, within the country						
c) Yes, including providing support to other Parties						
6. Plas your country promoted regional cooperation in applying the ecosyst national borders? (decision V/6)	em approach across					
a) No						
b) Yes, informal cooperation (please provide details below)						
c) Yes, formal cooperation (please provide details below)						
Further comments on regional cooperation in applying the ecosystem approborders.	oach across national					
Regional cooperation on applying the ecosystem approach across borders has begun in Botswana. The Kalahari Transfrontier Park is the first cross border game reserve in Africa. Botswana and South Africa are cooperating to conserve the Kalahari Transfrontier Park which is an important ecosystem where large populations of wild animals exist. The park protects their migratory routes. A similar project is being developed for the Shashe-Limpopo area between Botswana, Zimbabwe and South Africa. In the Okavango regional cooperation is in the form of the Permanent Okavango River Basin Commission whose mandate is to oversee the safe management of the whole Okavango Basin. This Commission is made up of representatives from the governments of the basin states and has resulted in many conservation programmes for the area.						
7. Is your country facilitating the exchange of experiences, capacity building, and awareness raising to assist with the implementation of the ecosystem a VI/12 and VII/11)						
a) No	Х					
b) No, some programmes are under development						
c) Yes, some programmes are being implemented (please provide details below)						
d) Yes, comprehensive programmes are being implemented (please provide details below)						
Further comments on facilitating the exchange of experiences, capacity building, technology transfer and awareness raising to assist with the implementation of the ecosystem approach.						
8. Is your country creating an enabling environment for the implementation of the ecosystem approach, including through development of appropriate institutional frameworks? (decision VII/11)						
a) No						
b) No, but relevant policies and programmes are under development X						

c)	Yes, some policies and programmes are in place (please provide details below)	
d)	Yes, comprehensive policies and programmes are in place (please provide details below)	

Further comments on the creation of an enabling environment for the implementation of the ecosystem approach.

The NBSAP clearly calls for the institutionalization of the ecosystem approach in Objective 3.1.1. This will be implemented so with the implementation of the NBSAP.

#### C. ARTICLES OF THE CONVENTION

#### Article 5 - Cooperation

9. ?	Is	your	country	actively	cooperating	with	other	Parties	in	respect	of	areas	beyond	national
jurisd	lictio	on for	the cons	servation	and sustaina	able u	se of b	oiologica	l di	versity?				

a) No	
b) Yes, bilateral cooperation (please give details below)	x
c) Yes, multilateral cooperation (please give details below)	x
d) Yes, regional and/or subregional cooperation (please give details below)	X
e) Yes, other forms of cooperation (please give details below)	X

Further comments on cooperation with other Parties in respect of areas beyond national jurisdiction for the conservation and sustainable use of biodiversity.

Botswana has a long history of regional and international cooperation in environmental and biodiversity conservation and sustainable use. Botswana is involved in many initiatives aim at promoting regional and international cooperation. These include the SADC Protocol on Shared Water Courses, the Permanent Okavango River Basin Commission, the Kalahari Transfrontier Park (and other transfrontier parks that are still being established), the SADC Biodiversity Support Programme, the Every River Has Its People Project and others. Furthermore, Botswana is actively involved in several Multi-Lateral Environmental Agreements including the Convention on Biological Diversity, the Convention on Wetlands of International Importance (RAMSAR), the Convention on International Trade in Rare and Endangered Species of Flora and Fauna, the United Nations Convention to Combat Desertification, the United Nations Framework Convention on Climate Change and others.

10. Is your country working with other Parties to develop regional, subregional or bioregional mechanisms and networks to support implementation of the Convention? (decision VI/27 A)					
a) No					
b) No, but consultations are under way					
c) Yes, some mechanisms and networks have been established (please provide details below)	х				
d) Yes, existing mechanisms have been strengthened (please provide details below)					
Further comments on development of regional, subregional or bioregional mechanisms and networks					

to support implementation of the Convention.

Through the SADC Biodiversity Support Programme Botswana is developing regional mechanisms to support the implement of the Convention. The country is also involved in the Conservation and Development Opportunities for the Sustainable Utilization of Biodiversity in the Communal Lands of Southern Africa (CODEOSUB) Programme, which is a regional programme, aimed at promoting conservation and sustainable utilization of biodiversity in the SADC region. The Southern African Botanical Diversity Network (SABONET) is a research network on botanical biodiversity.

11.	ls	your	country	taking	step	to h	narmonize	national	policies	and	prog	rammes,	with a	a view to
optin	nizi	ng po	olicy coh	erence,	syne	rgie	s and effic	ciency in	the imp	leme	ntatio	on of var	ious m	ultilateral
envir	oni	ment	agreeme	ents (M	(AEAs	and	relevant	regional	initiative	es at	the	national	level?	(decision
VI/20	))													

a) No	
b) No, but steps are under consideration	
c) Yes, some steps are being taken (please specify below)	x
d) Yes, comprehensive steps are being taken (please specify below)	

Further comments on the harmonization of policies and programmes at the national level.

Botswana has established a Ministry of Environment, Wildlife and Tourism since the last report. The Environmental Management Act that is still under draft at the Attorney General's Chamber will also help in the harmonization of policies and programmes as a way of optimizing policy coherence, synergies and efficiency in the implementation of various MEAs.

#### Box XLI.

Please elaborate below on the implementation of this strategy specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The established Ministry of environment bring all environmental issues under one roof for better coordinating of policies, strategies and programs with a goal of developing and implementing these policies, strategies and programs to effectively conserve and manage the country's environment and natural resources for sustainable development and sustainable use.

The establishment of the Ministry of environment, wildlife and tourism, especially targeting the protection and conservation of the environment and promotion of investment opportunities aimed at deriving maximum socio economic benefits from the environment means that the country will ensure the fair and equitable sharing of benefits arising out of the use of genetic resources, promote the sustainable use of biodiversity as well as reducing the rate of loss of the components of biodiversity as a way of contributing towards the 2010 targets.

## Article 6 - General measures for conservation and sustainable use

<b>12.</b> Has your country put in place effective national strategies, plans and progrational framework for implementing the three objectives of the Convention Strategic Plan)					
a) No					
<ul> <li>b) No, but relevant strategies, plans and programmes are under development</li> </ul>					
<ul> <li>Yes, some strategies, plans and programmes are in place (please provide details below)</li> </ul>					
<ul> <li>d) Yes, comprehensive strategies, plans and programmes are in place (please provide details below)</li> </ul>	x				
Further comments on the strategies, plans and programmes for implementing the the Convention.	e three objectives of				
The NBSAP is a well effective strategy that will implement the three objectives of the convention, for example, it calls for a comprehensive strategy and program for sustainable use of resources including quotas and monitoring of resources, development of community capacity in utilization of natural resources in income generating activities and to secure access for sustainable use strategies, making access and benefit sharing agreement guidelines easily available. Other programs targeting the three objectives of the convention are the Community Based Natural Resources Management Program (CBNRM) and Community Based Organizations (CBOs). These are community-based programs dealing with the conservation, utilization and deriving revenue from the use, conservation and harvesting of natural resources. The Transfrontier parks and the management plans for the Okavango and the Makgadikgadi all work towards achieving the Objectives of the convention.					
13. Plas your country set measurable targets within its national strategies (decisions II/7 and III/9)	s and action plans?				
a) No					
b) No, measurable targets are still in early stages of development					
c) No, but measurable targets are in advanced stages of development					
d) Yes, relevant targets are in place (please provide details below)	х				
e) Yes, reports on implementation of relevant targets available (please provide details below)					
Further comments on targets set within national biodiversity strategies and action	n plans.				
Implementation timeframe of the NBSAP is five (5) years in general. Some active a ten- year timeframe.	ities, however, have				
14. Has your country identified priority actions in its national biodiversity strate (decision VI/27 A)	egy and action plan?				
a) No					
b) No, but priority actions are being identified					
c) Yes, priority actions identified (please provide details below)	х				
Further comments on priority actions identified in the national biodiversity strate	gy and action plan.				
The NBSAP has identified areas of conservation priority at both national and d	istrict levels for the				

maximization of the conservation benefits to cost ratio.

<b>15.</b> Has your country integrated the conservation benefit sharing into relevant sectoral or cross VI/27 A)						
a) No						
b) Yes, in some sectors (please provide de						
c) Yes, in major sectors (please provide de						
d) Yes, in all sectors (please provide detail						
Further information on integration of the conservation and sustainable use of biodiversity and benefit-sharing into relevant sectoral or cross-sectoral plans, programmes and policies.						
Biodiversity is a major contributor to livelihoods in Botswana through generation of cash and in – kind income from products derived form biological resources, and Botswana has integrated the conservation and sustainable use of biodiversity into its sectoral or cross – sectoral plans. For example, the National vision 2016 (Botswana's long term vision) emphasizes on the sustainable utilization of resources and economic diversification. It also calls for a fully integrated approach towards conservation and development, with equitable distribution of environmental assets and natural resources and their benefits. The National Development Plan 9 (NDP 9) on the other hand promise that conservation and protection of natural resources will continue to be given attention as well as putting in place specific legislations and provisions that will play a positive role in the overall protection of the environment by, among others, mitigating and ameliorating environmental degradation. The National Conservation Strategy (NCS), founded on the principle of sustainable development, also calls for development that meets the needs of the present without compromising the ability of future generations to meet their needs. The NCS emphasis on conservation of rangeland, wood, veld and wildlife resources with its counterpart goal of conservation of all ecosystems, wildlife and cultural resources, protection of endangered species and the cost – effective						
restoration of degraded renewable natural resou	11 003.					
16. Are migratory species and their habitats strategy or action plan (NBSAP)? (decision VI/20	addressed by your country's	national biodiversity				
16. Are migratory species and their habitats	addressed by your country's	national biodiversity				
<b>16.</b> Are migratory species and their habitats strategy or action plan (NBSAP)? (decision VI/20	addressed by your country's					
16. Are migratory species and their habitats strategy or action plan (NBSAP)? (decision VI/20 a) Yes	addressed by your country's D)					
16. Are migratory species and their habitats strategy or action plan (NBSAP)? (decision VI/20 a) Yes b) No	addressed by your country's D)  which it addresses  Although Botswana has not Eurasian Water Bird Agreemen on migratory species of wild programmes in place that ens and sustainable use of mig	signed the African to nor the Convention animals, there are ure the conservation gratory species, for an agreement of ing countries on the sustainable use of standing has lead to tier parks with South a disease controlling such a way that they wement of migratory				

	contributed to a more efficient biodiversity use and conservation or resources. Botswana being a tourism destination area, a more integrated approach to tourism and biodiversity management has contributed more to the conservation and sustainable use of biodiversity.
(c) Minimizing or eliminating barriers or obstacles to migration	National and international boundaries and fences have been erected such that the do not interfere with the movement of migratory species and where they is transboundary movement agreements have been reached to keep the zone open for easy movement. i.e. the kgalagadi transfrontier park and the shalimpo transfontier park.
(d) Research and monitoring for migratory species	Research and monitoring is needed to understand the movement of migratory species, the level of threats and its severity to migratory species. The NBSAP calls for research and continued monitoring of threats and their effects on migratory species and to adapt mitigation activities accordingly.
(e) Transboundary movement	The government of Botswana is cooperating with South Africa and Namibia over a Memorandum of understanding concerning the conservation of sand grouse pterocles under this convention. It also has an agreement with south Africa in the management of a Transfrontier park to allow for free movement of wildlife to and from.
II) If NO, please briefly indicate below	
(a) The extent to which your country addresses migratory species at national level	
(b) Cooperation with other Range States since 2000	

#### **Biodiversity and Climate Change**

17. Has your country implemented projects aimed at mitigating and adapting to climate change that incorporate biodiversity conservation and sustainable use? (decision VII/15)					
a) No					
b) No, but some projects or programs are under development					
c) Yes, some projects have been implemented (please provide details below)	x				
Further comments on the projects aimed at mitigating and adapting to climate change that incorporate biodiversity conservation and sustainable use.					
The NBSAP calls for an improved understanding of the effects of climate change, as these changes have an effect on livelihoods and conservation management activities.					

**18.** Has your country facilitated coordination to ensure that climate change mitigation and adaptation projects are in line with commitments made under the United Nations Framework Convention on Climate Change and the United Nations Convention to Combat Desertification? (decision VII/15)

a) No	
b) No, but relevant mechanisms are under development	X
c) Yes, relevant mechanisms are in place (please provide details below)	

Further comments on the coordination to ensure that climate change mitigation and adaptation projects are in line with commitments made under the UNFCCC and the UNCCD.

The development of the NBSAP is calling for the integration of climate change concern into sectorial planning.

#### Box XLII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

10 2 On Article 7(a) does your country have

The implementation of this article will ensure that climate trends are established, plans to counteract the effects of climate threats are in place and action to mitigate the effects of climate change to vulnerable species are taken

#### Article 7 - Identification and monitoring

biological diversity at the genetic, species, ecosystem level?					
a)	No				
	Yes, selected/partial programmes at the genetic, species and/or ecosystem level only (please specify and provide details below)	x			
	Yes, complete programmes at ecosystem level and selected/partial inventories at the genetic and/or species level (please specify and provide details below)				

Further comments on ongoing programmes to identify components of biodiversity at the genetic, species and ecosystem level.

All major ecosystems, comprehensive range of species and for key groups such as endemic/endangered species there are ongoing programmes such as the national seed banks, livestock breeding programmes that target genetic resources. Although Botswana prefer *insitu* conservation mainly for wildlife species, there is also the conservation of species outside their natural habitat. For the greatest impact on long-term biodiversity conservation, Botswana has involved the concept of participatory approach to biodiversity conservation. Red data species, endemic species and other vulnerable species have been given conservation priority to control access and use and legal protection through management plans of both in situ and ex situ conservation measures.

<b>20.</b> On Article 7(b), which components of biological diversity identified in a of the Convention, have ongoing, systematic monitoring programmes?	ccordance with Annex I
a) at ecosystem level (please provide percentage based on area covered	Available information is compiled taking account bd important habitat areas
<ul> <li>b) at species level (please provide number of species per taxonomi group and percentage of total known number of species in each group)</li> </ul>	
c) at genetic level (please indicate number and focus of monitorin programmes)	9
Further comments on ongoing monitoring programmes at the genetic, species	and ecosystem level.
<b>21.</b> On Article 7(c), does your country have ongoing, systematic monitor of the following key threats to biodiversity?	ng programmes on any
a) No	
b) Yes, invasive alien species (please provide details below)	
c) Yes, climate change (please provide details below)	
d) Yes, pollution/eutrophication (please provide details below)	X
e) Yes, land use change/land degradation (please provide details below)	X
f) Yes, overexploitation or unsustainable use (please provide detai below)	s x
Further comments on monitoring programmes on key threats to biodiversity.	
Botswana's biodiversity is habitat destruction, reduction and degradation variety of factors ranging from direct destruction through construction of hinfrastructure, damage caused by pollution, unsustainable land and unsustainable rangeland management and excessive water abstraction. To avbiodiversity include the restoration and rehabilitation of degraded langenhancement of cross-sector collaborations, improve awareness and accomplement and enforce pollution standards to include pollution of air, water are in place to manage bush encroachment, over-grazing and over stocking the implementation of and training to minimize the negative effects of bushfire	ouses, roads and other resource use including roid and mitigate loss of ds, improve land use, countability of citizens, and land. Programmes on rangelands as well as
<b>22.</b> On Article 7 (d), does your country have a mechanism to maintain ar from inventories and monitoring programmes and coordinate information coll at the national level?	
a) No	
b) No, but some mechanisms or systems are being considered	
c) Yes, some mechanisms or systems are being established	x

below)	
e) Yes, a relatively complete system is in place (please provide details below)	

Further information on the coordination of data and information collection and management.

Currently mechanisms to maintain and organize are disintegrated/isolated but the NBSAP calls for the establishment of national data collection and meta-data standards that are regionally compatible that comply with international standards.

<b>23.</b> ? III/10)	Does your country use indicators for national-level monitoring of bi	odiversity? (decision
a)	No	
b)	No, but identification of potential indicators is under way (please describe)	
c)	Yes, some indicators identified and in use (please describe and, if available, provide website address, where data are summarized and presented)	х
d)	Yes, a relatively complete set of indicators identified and in use (please describe and, if available, provide website address, where data are summarized and presented	

Further comments on the indicators identified and in use.

Currently there is the use of inventories in big mammals, vegetation maps and detailed descriptions of vegetation as a monitored manifestation of ecosystem that constitute a readily measurable indicator of the health and stability of the ecosystem. The use of checklist and some wildlife count for big mammals.

#### Box XLIII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The implementation has been done sectorially. The NBSAP has been completed and its implementation will start in the next financial year

#### **Decisions on Taxonomy**

24. Has your country developed a plan to implement the suggested actions as annexed to decision IV/1? (decision IV/1)					
a) No					
b) No, but a plan is under development					
c) Yes, a plan is in place (please provide details below)	x				

d) Yes, reports on implementation available (please provide details below)		
Further information on a plan to implement the suggested actions as annexed to	decision IV/1.	
Botswana has promoted and supported the <i>ex situ</i> conservation with the establishment of the National Plant Genetic Resource Centre (NPGRC) and the National Animal Genetic Resource Centre where collections on crops and animal genetic have been stored. The collections incorporate the so-called minor crops such as watermelon, beans, wild relatives of cultivated crops and indigenous vegetables. Beside the collections held at National level, there are some outside institutions holding Botswana's collections such as ICRISAT, IITA, IRRI, Kew, ILRL and the USDA genetic resources centers.		
25. Is your country investing on a long-term basis in the development of the control of the cont	ment of appropriate	
a) No		
b) Yes (please provide details below)	х	
Further information on investment on a long-term basis in the developing infrastructure for your national taxonomic collections.	ment of appropriate	
An ex situ facility for conservation of farm animals genetic resources is under construction especially that the livestock genes is still underdeveloped in the country save for the keeping of semen for breeding purposes. Botswana is also looking at the world Animal Resources and Breed's Survey to assess its position and needs.		
<u> </u>		
<b>26.?</b> Does your country provide training programmes in taxonomy and work to of taxonomic research? (decision IV/1)	o increase its capacity	
	o increase its capacity	
of taxonomic research? (decision IV/1)	o increase its capacity	
of taxonomic research? (decision IV/1)  a) No	x	
of taxonomic research? (decision IV/1)  a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increase.	X ease the capacity of	
of taxonomic research? (decision IV/1)  a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increase taxonomic research.  Training programmes are in place at the National Plant Genetic Resources Cerebase (decision IV/1)	X ease the capacity of	
of taxonomic research? (decision IV/1)  a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increase taxonomic research.  Training programmes are in place at the National Plant Genetic Resources Cerebase (decision IV/1)	x  rease the capacity of other (NPGRC) to train  or biological diversity	
of taxonomic research? (decision IV/1)  a) No  b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increasonomic research.  Training programmes are in place at the National Plant Genetic Resources Cerindividuals on crop genetic resources and on animal genetic resources.	x  rease the capacity of other (NPGRC) to train  or biological diversity	
a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increase and on animal genetic resources.  Training programmes are in place at the National Plant Genetic Resources Certindividuals on crop genetic resources and on animal genetic resources.	x  rease the capacity of other (NPGRC) to train  or biological diversity	
a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increasonomic research.  Training programmes are in place at the National Plant Genetic Resources Certindividuals on crop genetic resources and on animal genetic resources.  27. Has your country taken steps to ensure that institutions responsible for inventories and taxonomic activities are financially and administratively stable.	x  rease the capacity of other (NPGRC) to train  or biological diversity	
a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increasonomic research.  Training programmes are in place at the National Plant Genetic Resources Cerlindividuals on crop genetic resources and on animal genetic resources.  27. Has your country taken steps to ensure that institutions responsible for inventories and taxonomic activities are financially and administratively stable.  a) No b) No, but steps are being considered	x  ease the capacity of  tre (NPGRC) to train  or biological diversity  ple? (decision IV/1)	
a) No b) Yes (please provide details below)  Further information on training programmes in taxonomy and efforts to increase taxonomic research.  Training programmes are in place at the National Plant Genetic Resources Cerindividuals on crop genetic resources and on animal genetic resources.  27. Has your country taken steps to ensure that institutions responsible for inventories and taxonomic activities are financially and administratively stable a) No b) No, but steps are being considered c) Yes, for some institutions	x  ease the capacity of  tre (NPGRC) to train  or biological diversity  ple? (decision IV/1)	

28.\*  $^2$  Is your country collaborating with the existing regional, sub regional and global initiatives, partnerships and institutions in carrying out the programme of work, including assessing regional taxonomic needs and identifying regional-level priorities? (decision VI/8)

 $<sup>^2</sup>$  The questions marked with  $^*$  in this section on Taxonomy are similar to some questions contained in the format for a report on the implementation of the programme of work on the Global Taxonomy Initiative. Those countries

a) No		
b) No, but collaborative programmes are under development		
<ul> <li>Yes, some collaborative programmes are being implemented provide details about collaborative programmes, including re- regional needs assessments)</li> </ul>		
d) Yes, comprehensive collaborative programmes are being imple (please provide details about collaborative programmes, in results of regional needs assessment and priority identification)	ncluding	
Further information on the collaboration your country is carrying out to implement the programme of work for the GTI, including regional needs assessment and priority identification.		
Botswana is collaborating with other institutions like the RBG Kew in the UK, Missouri Botanical Gardens in the US and the National Botanical Institute in South Africa to assess regional taxonomic needs and in identifying regional-level priorities.		
29. * Has your country made an assessment of taxonomic needs and capacities at the national level for the implementation of the Convention? (annex to decision VI/8)		
a) No		
<ul> <li>b) Yes, basic assessment made (please provide below a list of need capacities identified)</li> </ul>	eds and X	
<ul> <li>c) Yes, thorough assessment made (please provide below a list o and capacities identified)</li> </ul>	f needs	
Further comments on national assessment of taxonomic needs and cap	acities.	
Botswana still needs much taxonomy work, especially for the micro - organisms. Although some taxonomy research has been done in the country a lot has to be done on appropriate reference collections and research in general.		

30.\* Is your country working on regional or global capacity building to support access to, and generation of, taxonomic information in collaboration with other Parties? (annex to decision VI/8)

a) No

b) Yes, relevant programmes are under development

c) Yes, some activities are being undertaken for this purpose (please provide details below)

d) Yes, many activities are being undertaken for this purpose (please provide details below)

Further comments on regional or global capacity-building to support access to, and generation of,

At regional level the country is collaborating with the SADC Plant Genetic Resources Centre in Zambia which provides backup facilities, the South African National Biodiversity Institution and the National

taxonomic information in collaboration with other Parties.

that have submitted such a report do not need to answer these questions unless they have updated information to provide.

<b>31.</b> * Has your country developed taxonomic support for the implementation of the programmes of work under the Convention as called upon in decision VI/8? (Annex to decision VI/8)		
a) No		
b) Yes, for forest biodiversity (please provide details below)	x	
c) Yes, for marine and coastal biodiversity (please provide details below)		
d) Yes, for dry and sub-humid lands (please provide details below)	x	
e) Yes, for inland waters biodiversity (please provide details below)	x	
f) Yes, for mountain biodiversity (please provide details below)		
g) Yes, for protected areas (please provide details below)		

Further comments on the development of taxonomic support for the implementation of the programmes of work under the Convention.

Χ

h) Yes, for agricultural biodiversity (please provide details below)

i) Yes, for island biodiversity (please provide details below)

The Small stock Breeders Association of Botswana, College of Agriculture, Department of Animals Research and Permaculture Trust Botswana are all looking into breed surveys and collection of wild plant relatives, the long-term monitoring of the status of resources through monitoring individuals and preservation of representative sample of ecosystem types, maintaining of individual plants and seeds species all work towards the implementation of the programme of work.

## **32.**\* Has your country developed taxonomic support for the implementation of the cross-cutting issues under the Convention as called upon in decision VI/8?

a) No	
b) Yes, for access and benefit-sharing (please provide details below)	Х
c) Yes, for Article 8(j) (please provide details below)	Х
d) Yes, for the ecosystem approach (please provide details below)	Х
e) Yes, for impact assessment, monitoring and indicators (please provide details below)	
f) Yes, for invasive alien species (please provide details below)	
g) Yes, for others (please provide details below)	

Further comments on the development of taxonomic support for the implementation of the cross-cutting issues under the Convention.

Botswana has a network of in situ conservation facilities for wildlife and plants through its National parks, game reserves, forests, transboundary links and some protected areas. Identification of plants takes place at the herbariums within the country and through outside Botanical institutes and herbariums.

# Article 8 - *In-situ* conservation [excluding paragraphs (a) to (e), (h) and (j)]

<b>33.</b> On Article 8(i), has your country endeavored to provide the compatibility between present uses and the conservation of biological diversity a its components?		
a) No		
b) No, but potential measures are being identified		
c) Yes, some measures undertaken (please provide details below)		
d) Yes, comprehensive measures undertaken (please provide details below)	х	
Further comments on the measures taken to provide the conditions needed for operent uses and the conservation of biological diversity and sustainable use of		
The National conservation Strategy ensures that all natural resources are use for the benefit of future generations. The conservation of all ecosystems, resources, the protection of endangered species and cost-effective restoration or resources ensures the achievement of the conservation of biological diversity and The National Development 9 calls for a continued attention in conservation and resources as well as finding means to address any merging conflicts in order to impacts to biodiversity.	wildlife and cultural f degraded renewable nd its sustainable use. protection of natural	
<b>34.</b> On Article 8(k), has your country developed or maintained the necessary other regulatory provisions for the protection of threatened species and population		
a) No		
b) No, but legislation is being developed		
<ul> <li>Yes, legislation or other measures are in place (please provide details below)</li> </ul>	x	
Further information on the legislation and/or regulations for the protection of the populations.	reatened species and	
There are a number of legislative instruments that address the management and protection of threatened species and populations. These instruments regulate issues such as protection of habitat, individual species and communities.		
<b>35.</b> On Article 8(I), does your country regulate or manage processes and condentified under Article 7 as having significant adverse effects on biological diverse.		
a) No		
b) No, but relevant processes and categories of activities being identified		
c) Yes, to a limited extent (please provide details below)	X	
d) Yes, to a significant extent (please provide details below)		
Further comments on the regulation or management of the processes and call identified by Article 7 as having significant adverse effects on biodiversity.	ategories of activities	
Botswana has taken measures that promote the protection of ecosystems, nat maintenance of viable populations of species in the natural surroundings.	ural habitats and the	

#### Box XLIV.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation

Actions taken to conserve biodiversity address the full range of causes of its loss, steps to protect genes, species, habitats and ecosystems, efforts to prevent degradation of key natural ecosystems and the sustainable use of biodiversity. The legislative instruments address the conservation and management of biodiversity and are essential for achieving the three objectives of the convention and in addressing the 2010 target of reducing the rate of loss of the components of biodiversity as well as the attainment of the millennium Development goals.

in addres	ssing the 2010 target of reducing the rate of loss of the components of kinnent of the millennium Development goals.	
	Programme of Work on Protected Areas (Article 8 (a)	to (e))
<b>36.</b> Has your country established suitable time bound and measurable national-level protected areas targets and indicators? (Decision VII/28)		
a)	No (please specify reasons)	
b)	No, but relevant work is under way	
c)	Yes, some targets and indicators established (please provide details below)	x
d)	Yes, comprehensive targets and indicators established (please provide details below)	
Further	comments on targets and indicators for protected areas.	
In addition to appropriate management systems of conservation, it is essential to promote and provide incentives for conservation and Botswana has provided for communities around protected areas to engage in community based conservation to derive benefits and take responsibilities in conserving natural resources. Government has strengthened the mandate and efficiency of the Community Based Natural Resource Management (CBNRM), reviewed the current national and regional land management systems and land use in terms of effectiveness in biodiversity conservation, identifying weaknesses, strengths and best practices, and scope for the increased community involvement in conservation activities. Most of these are implemented with the National Development Plan target (NBP) and reviewed during the NDP mid-term review.		
37. Has your country taken action to establish or expand protected areas in any large or relatively unfragmented natural area or areas under high threat, including securing threatened species? (decision VII/28)		
a)	No	
b)	No, but relevant programmes are under development	
c)	Yes, limited actions taken (please provide details below)	
d)	Yes, significant actions taken (please provide details below)	x
Further	comments on actions taken to establish or expand protected areas.	
18.2%	of the total land area of Botswana is protected either by National par	k, Game reserve or

<b>38</b> . Has your country taken any action to address the under representation of water ecosystems in the existing national or regional systems of protected areas?		
a) No		
b) Not applicable		
c) No, but relevant actions are being considered		
d) Yes, limited actions taken (please provide details below)		
e) Yes, significant actions taken (please provide details below)	х	
Further comments on actions taken to address the under representation of mar ecosystems in the existing national or regional systems of protected areas.	ine and inland water	
Water ecosystems are of particular interest to Botswana as they provide hydrological, ecological and climatic functions. Botswana being a dry Country has taken liberty to conserve and manage its waters sustainable as only 4% of the total land area represent water ecosystem. The main water ecosystem, the Okavango delta, is a designated Ramsar site and is protected under the convention.		
<b>39.</b> Has your country identified and implemented practical steps for improvin protected areas into broader land and seascapes, including policy, planning a (decision VII/28)		
a) No		
b) No, but some programmes are under development		
c) Yes, some steps identified and implemented (please provide details below)		
d) Yes, many steps identified and implemented (please provide details below)	х	
Further comments on practical steps for improving integration of protected are and seascapes, including policy, planning and other measures.	as into broader land	
Protected areas are surrounded by Wildlife Management Areas (WMAs) making it easy to expand into broader land. Planning structures recognize WMAs. Expand habitats by allowing free movement of animals within and between countries.		
<b>40.</b> Is your country applying environmental impact assessment guideline to prevaluating effects on protected areas? (decision VII/28)	projects or plans for	
a) No		
b) No, but relevant EIA guidelines are under development		
<ul> <li>Yes, EIA guidelines are applied to some projects or plans (please provide details below)</li> </ul>		
<ul> <li>d) Yes, EIA guidelines are applied to all relevant projects or plans (please provide details below)</li> </ul>		
Further comments on application of environmental impact assessment guidelines for evaluating effects on protected areas.	s to projects or plans	
The Environmental Impact Assessment Bill has been passed by parliament all are requested to go through Impact Assessment before construction can comme		

<b>41.</b> Has your country identified legislative and institutional gaps and barriers that impede effective establishment and management of protected areas? (Decision VII/28)	
a) No	
b) No, but relevant work is under way	
c) Yes, some gaps and barriers identified (please provide details below))	Х
d) Yes, many gaps and barriers identified (please provide details below)	
Further comments on identification of legislative and institutional gaps and barriers that impede effective establishment and management of protected areas.	
There is no single composite legislation or stature on biodiversity, nor a legislation or environmental act aimed at regulating environmental issues includi however, does not hinder the conservation in Botswana as there are a number that influence activities of various actors in the management, conservatio biodiversity resources.	ng Biodiversity. This, of policy framework
<b>42.</b> Has your country undertaken national protected-area capacity need established capacity building programmes? (Decision VII/28)	s assessments and
a) No	
b) No, but assessments are under way	
c) Yes, a basic assessment undertaken and some programmes established (please provide details below)	x
d) Yes, a thorough assessment undertaken and comprehensive programmes established (please provide details below)	
Further comments on protected-area capacity needs assessment and establishment of capacity building programmes.	
There is a need to make sure network of protected areas include important farmers in situ conservation and the possibility of privatize or public-private so national park and game reserve.	
<b>43.</b> Is your country implementing country-level sustainable financing plans the systems of protected areas? (decision VII/28)	nat support national
a) No	
b) No, but relevant plan is under development	
c) Yes, relevant plan is in place (please provide details below)	х
d) Yes, relevant plan is being implemented (please provide details below)	
Further comments on implementation of country-level sustainable financing national systems of protected areas.	plans that support

Government is funding plans that support national systems of protected areas. In addition several

donors also support conservation initiatives.

<b>44.</b> Is your country implementing appropriate methods, standards, criteri evaluating the effectiveness of protected areas management and governance	
a) No	
b) No, but relevant methods, standards, criteria and indicators are under development	
c) Yes, some national methods, standards, criteria and indicators developed and in use (please provide details below)	x
d) Yes, some national methods, standards, criteria and indicators developed and in use and some international methods, standards, criteria and indicators in use (please provide details below)	

Further comments on methods, standards, criteria and indicators for evaluating the effectiveness of protected areas management and governance.

Botswana has adopted and continues to adopt a number of policy frameworks on environment including management and governance of protected areas. These policy framework not only guide direct activities of various stakeholders in favour of conservation and protection but also evaluate the effectiveness of existing methods, criteria and indicators used to manage and govern protected areas for a better and improved methods and indicators.

#### Box XLV.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

There are a number of policy frameworks that have been adopted by Government to regulate environmental issues particularly the issues of protected areas. These policy frameworks are used to influence activities of various actors in the management, conservation and utilization of protected areas therefore help in contribute to the progress towards 2010 target of reducing the rate of the components of biodiversity particularly habitats and ecosystems, and the goal of the strategy plan of the convention

#### Article 8(h) - Alien species

<b>45.</b> Has your country identified alien species introduced into its territory and established a system for tracking the introduction of alien species?		
a) No		
b) Yes, some alien species identified but a tracking system not yet established	x	
c) Yes, some alien species identified and tracking system in place		
d) Yes, alien species of major concern identified and tracking system in place		
46. Plas your country assessed the risks posed to ecosystems, habitats introduction of these alien species?	s or species by the	

a) No		
b) Yes, but only for some alien species of concern (please provide details below)	x	
c) Yes, for most alien species (please provide details below)		
Further information on the assessment of the risks posed to ecosystems, habit introduction of these alien species.	tats or species by the	
Assessment of the risks posed to water by aquatic weeds (salvinia molesta and in the Okavango, Kwando/Linyanti/chobe rivers) and some agriculture noxio done to ascertain the extent of the problem of alien species. Currently an asse and exotic trees in Botswana is on going through the Department of Forestry.	us weeds have been	
47. Plas your country undertaken measures to prevent the introduction of, those alien species which threaten ecosystems, habitats or species?	control or eradicate,	
a) No		
b) No, but potential measures are under consideration		
c) Yes, some measures are in place (please provide details below)	x	
d) Yes, comprehensive measures are in place (please provide details below)		
Further information on the measures to prevent the introduction of, control or species that threaten ecosystems, habitats or species.	eradicate those alien	
Biological control agents (weevil, scientifically known as <i>Cyrtobagous salviniae</i> ) are used to clear <i>salvinia</i> infections in and around the Okavango delta while <i>Pistia</i> weed is biological controlled by an agent known as <i>Neohydonomus affinis</i> . A few legal measures are in place to effectively control the introduction and monitoring and control of aliens and exotic, except for Noxious weeds Act and the Aquatic weeds Act.		
48. In dealing with the issue of invasive species, has your country developed mechanisms for international cooperation, including the exchange of best practic		
a) No		
b) Yes, bilateral cooperation		
c) Yes, regional and/or subregional cooperation	х	
d) Yes, multilateral cooperation		
<b>49.</b> Is your country using the ecosystem approach and precautionary approaches as appropriate in its work on alien invasive species? (decision V/8)	and bio-geographical	
a) No		
b) Yes (please provide details below)	x	
Further comments on the use of the ecosystem approach and precautionary approaches in work on alien invasive species.	and bio-geographical	
To prevent further introduction of alien species there are legislations in plaimport, and movement of boats in the country, destroying of ornamental plants as aquatic weeds, and the country is cooperating with neighboring countries to species identified in their countries to prevent the importing into the Country more research and botanical surveys to monitor the extent of alien species.	and fodder regarded identify problem alien	

<b>50.</b> Has your country identified national needs and priorities for the implementation of the Guiding Principles? (decision VI/23)					
a) No					
b) No, but needs and priorities are being identified	X				
<ul> <li>Yes, national needs and priorities have been identified (please provide below a list of needs and priorities identified)</li> </ul>					
Further comments on the identification of national needs and priorities for the implementation of the Guiding Principles.					
There is a need for the national legislation and policy to prohibit the introduction, sale or propagation of species listed as problem species. A classification system should be developed allowing the use of certain aliens under controlled conditions, while others would require instant eradication as well as looking at methods of enforcing the legislation.					
<b>51.</b> Has your country created mechanisms to coordinate national programm Guiding Principles? (decision VI/23)	nes for applying the				
a) No					
b) No, but mechanisms are under development	х				
c) Yes, mechanisms are in place (please provide details below)					
Further comments on the mechanisms created to coordinate national programmes for implementing the Guiding Principles.					
<b>52.</b> Has your country reviewed relevant policies, legislation and institutions in the Principles, and adjusted or developed policies, legislation and institutions? (					
a) No	Х				
b) No, but review under way					
<ul> <li>c) Yes, review completed and adjustment proposed (please provide details below)</li> </ul>					
d) Yes, adjustment and development ongoing					
e) Yes, some adjustments and development completed (please provide details below)					
Further information on the review, adjustment or development of policies, legislation and institutions in light of the Guiding Principles.					

c) Yes, mechanisms are in place (please provide details below)  Further comments on cooperation between various sectors.  Now that it is clear that alien species exist in Botswana, Concerned sectors are cooperating in the drafting of a legislation to improve the prevention, early detection, eradication and control of alien species. These sectors are sharing on scientific and economical knowledge about long-term effects of AIS and the necessary control measures.  54. Is your country collaborating with trading partners and neighboring countries to address threats				
Now that it is clear that alien species exist in Botswana, Concerned sectors are cooperating in the drafting of a legislation to improve the prevention, early detection, eradication and control of alier species. These sectors are sharing on scientific and economical knowledge about long-term effects of AIS and the necessary control measures.  54. Is your country collaborating with trading partners and neighboring countries to address threats.				
drafting of a legislation to improve the prevention, early detection, eradication and control of alier species. These sectors are sharing on scientific and economical knowledge about long-term effects of AIS and the necessary control measures.  54. Is your country collaborating with trading partners and neighboring countries to address threats				
of invasive alien species to biodiversity in ecosystems that cross international boundaries (decision VI/23)				
a) No				
b) Yes, relevant collaborative programmes are under development X				
c) Yes, relevant programmes are in place (please specify below the measures taken for this purpose)				
Further comments on collaboration with trading partners and neighboring countries.				
With the problem of alien species becoming more of an environmental issue, Botswana is collaborating with neighboring countries to address issues of international boundary crossing of alien species and to share on measures taken by other countries to control alien species.				
<b>55.</b> Is your country developing capacity to use risk assessment to address threats of invasive alien species to biodiversity and incorporate such methodologies in environmental impact assessment (EIA) and strategic environmental assessment (SEA)? (decision VI/23)				
a) No				
b) No, but programmes for this purpose are under development X				
c) Yes, some activities for developing capacity in this field are being undertaken (please provide details below)				
undertaken (please provide details below)				
d) Yes, comprehensive activities are being undertaken (please provide details below)				
d) Yes, comprehensive activities are being undertaken (please provide				

**53.** Is your country enhancing cooperation between various sectors in order to improve prevention, early detection, eradication and/or control of invasive alien species? (decision VI/23)

a) No

56. Has your country developed financial measures and other policies and tools to reduce the threats of invasive species? (decision VI/23)	to promote activities
a) No	
b) No, but relevant measures and policies are under development	x
c) Yes, some measures, policies and tools are in place (please provide details below)	
d) Yes, comprehensive measures and tools are in place (please provide details below)	
Further comments on the development of financial measures and other polici promotion of activities to reduce the threats of invasive species.	ies and tools for the

There has been a shift from chemical control of aquatic weeds to biological. The Agro chemical Act has been developed to put a restriction on the quantities and types of chemicals.

### Box XLVI.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Alien species need to be kept under control as some have the potential to invade local ecosystems and this may lead to environmental, economical and social problems. It is important that alien species identified as problem are not allowed to spread. Development of long-term control measures and guidelines on the eradication of alien species will contribute to the attainment of the 2010 target, strategic goal of the convention and the national biodiversity strategy and action plan.

# Article 8(j) - Traditional knowledge and related provisions

### **GURTS**

<b>57.</b> Has your country created and developed capacity-building programmes to involve and enable smallholder farmers, indigenous and local communities, and other relevant stakeholders to effectively participate in decision-making processes related to genetic use restriction technologies?				
a) No				
b) No, but some programmes are under development	Х			
c) Yes, some programmes are in place (please provide details below)				
d) Yes, comprehensive programmes are in place (please provide details below)				
Further comments on capacity-building programmes to involve and enable s	mallholder farmers,			

Further comments on capacity-building programmes to involve and enable smallholder farmers, indigenous and local communities and other relevant stakeholders to effectively participate in decision-making processes related to GURTs.

Government is using Community Based Natural Resource Management programmes (CBNRM), Community Based Organizations (CBOs) and Ecotourism as vehicles of diversifying the economy,

bringing economic development to local communities and as a way of involving smallholder farmers and local communities to effectively participate in decision-making processes.

#### Status and Trends

Status and Trends			
58. Has your country supported indigenous and local communities in undertadetermine the status, trends and threats related to the knowledge, innovation indigenous and local communities? (decision VII/16)			
a) No			
b) No, but support to relevant studies is being considered	Х		
c) Yes (please provide information on the studies undertaken)			
Further information on the studies undertaken to determine the status, trends at the knowledge, innovations and practices of indigenous and local communities, identified.			
Conservation of natural resources and sustainable use in Botswana is a success use of local/traditional knowledge and practices. Some conservation measures cultural taboos and traditional practices which results in the protection of certain common obligation is that people should not touch, kill or eat their totem or tabout aspects of life, land and beliefs on animals, cattle that are protected by local tabout involved local communities and supported them to better manage their biology sustainable way of earning a living. Community Based Organisations and Organisations have assisted communities in undertaking field studies and getting given genetic resources. The threats of losing the information however exist.	s are embedded on species because the cos controlling other cos. Government has gical resources in a Non Governmental		
Akwé:Kon Guidelines			
<b>59</b> . Has your country initiated a legal and institutional review of matters related to cultural, environmental and social impact assessment, with a view to incorporating the Akwé: Kon Guidelines into national legislation, policies, and procedures?			
a) No	х		
b) No, but review is under way			
c) Yes, a review undertaken (please provide details on the review)			
Further information on the review.			
<b>60.</b> Has your country used the Akwé: Kon Guidelines in any project proposed to sites and/or land and waters traditionally occupied by indigenous and (decision VII/16)			
a) No	х		
b) No, but a review of the Akwé: Kon guidelines is under way			
c) Yes, to some extent (please provide details below)			
d) Yes, to a significant extent (please provide details below)			
Further information on the projects where the Akwé: Kon Guidelines are applied.			

Capacity Building and Participation of Indigenous and Local C	communities		
<b>61.</b> Has your country undertaken any measures to enhance and strengthen the capacity of indigenous and local communities to be effectively involved in decision-making related to the use of their traditional knowledge, innovations and practices relevant to the conservation and sustainable use of biodiversity? (decision V/16)			
a) No			
b) No, but some programmes being developed			
c) Yes, some measures taken (please provide details below)	х		
d) Yes, comprehensive measures taken (please provide details below)			
Further information on the measures to enhance and strengthen the capacity of communities.	indigenous and local		
Capacity building either through training, awareness or strengthening of extens NGOs and Government to local communities has helped locals develop en biodiversity resources, promotion of traditional knowledge and skill base in order in the conservation and sustainable use and management of natural resources	terprises trading in		
<b>62.</b> Has your country developed appropriate mechanisms, guidelines, legislation to foster and promote the effective participation of indigenous and local commaking, policy planning and development and implementation of the sustainable use of biodiversity at international, regional, subregional, nation (decision V/16)	nmunities in decision e conservation and		
a) No			
b) No, but relevant mechanisms, guidelines and legislation are under development			
c) Yes, some mechanisms, guidelines and legislation are in place (please provide details below)	x		
Further information on the mechanisms, guidelines and legislation developed.			
The Rural Development Policy provides a platform for holistic approach to promote natural resource based livelihood and sustainable trade in rural areas, and the current policy framework (CBNRM and Tourism policy) provides an enabling environment for biodiversity conservation, management and sustainable utilization at local levels. Commercialisation has affected the regeneration capacity as they are heavily and improperly harvested as an open access resource.			
<b>63.</b> Has your country developed mechanisms for promoting the full and effect indigenous and local communities with specific provisions for the full, a participation of women in all elements of the programme of work? (decision V	active and effective		
a) No			
b) No, but relevant mechanisms are being developed			
c) Yes, mechanisms are in place (please provide details below)	х		
Further comments on the mechanisms for promoting the full and effective particle indigenous and local communities in all elements of the programme of work.	cipation of women of		
Women are the main users of natural resources, including being active in producing craft and gathering of wild natural resources for commercial purposes, harvesting of reeds, basket weaving harvesting of thatching grass, so they benefit from policy framework targeting local communities.			

### Support to implementation

<b>64.</b> Has your country established national, subregional and/or regional ir community biodiversity advisory committees?	ndigenous and local			
a) No	x			
b) No, but relevant work is under way				
c) Yes				
<b>65</b> . Has your country assisted indigenous and local community organizations to hold regional meetings to discuss the outcomes of the decisions of the Conference of the Parties and to prepare for meetings under the Convention?				
a) No				
b) Yes (please provide details about the outcome of meetings)	х			
Further information on the outcome of regional meetings.				
Local communities under Village Development Committees, Village Trust Committees, Resource user committees, wetlands committee and conservation committees hold meetings where some decisions of the convention are discussed as biodiversity is important for livelihoods of local communities making everyone to participate in its conservation.				
<b>66.</b> Has your country supported, financially and otherwise, indigenous and local communities in formulating their own community development and biodiversity conservation plans that will enable such communities to adopt a culturally appropriate strategic, integrated and phased approach to their development needs in line with community goals and objectives?				
a) No				
b) Yes, to some extent (please provide details below)				
c) Yes, to a significant extent (please provide details below)	x			
Further information on the support provided.				
All CBNRM projects are funded by government and provided with technical assistant.  Other donors are few.				

### Box XLVII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

# Article 9 - Ex-situ conservation

<b>67.</b> On Article 9(a) and (b), has your country adopted measures for the <i>ex-situ</i> conservation of components of biological diversity native to your country and originating outside your country?				
a) No				
b) No, but potential measures are under review				
c) Yes, some measures are in place (please provide details below)	х			
d) Yes, comprehensive measures are in place (please provide details below)				
Further information on the measures adopted for the <i>ex-situ</i> conservation biodiversity native to your country and originating outside your country.	n of components of			
Plants from all over the country are collected, transplanted and conserved into different sections showing different vegetation types of the country providing ex situ conservation of indigenous plant. The Millennium Seed Bank also assist with targeting and participation in plant and seed collecting expeditions and gene banking. Herbaria are also used for reference collections on preserved plants and plant specimens, provide botanical expertise on all aspects of plants including taxonomy.				
<b>68.</b> On Article 9(c), has your country adopted measures for the reintrod species into their natural habitats under appropriate conditions?	luction of threatened			
a) No				
b) No, but potential measures are under review				
c) Yes, some measures are in place (please provide details below)	х			
d) Yes, comprehensive measures are in place (please provide details below)				
Further comments on the measures for the reintroduction of threatened species into their natural habitats under appropriate conditions.				
The National Tree Seed Centre, the Forest Reserve and Tree plantation reintroduce threatened species into their natural habitat under the National tree planting exercise.				
<b>69.2</b> On Article 9(d), has your country taken measures to regulate and manage the collection of biological resources from natural habitats for <i>ex-situ</i> conservation purposes so as not to threaten ecosystems and <i>in-situ</i> populations of species?				
a) No				
b) No, but potential measures are under review				
c) Yes, some measures are in place (please provide details below)				
d) Yes, comprehensive measures are in place (please provide details below)				
Further information on the measures to regulate and manage the collection of biological resources from natural habitats for <i>ex-situ</i> conservation purposes so as not to threaten ecosystems and <i>in-situ</i> populations of species.				
The Botanical Garden, Gene banks, herbaria take plant and seeds to serve as focal points for botanical information, propagation of indigenous species, information centre and education centre so there little chance of threatening ecosystems considering the size of these centers.				

### Box XLVIII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

There is a need to coordinate biodiversity in Botswana, to collect available information on plant genetic resources, specimens, seed banks and tissue culture and make it easily available. National botanical data should be collected and pressed plant specimens channeled through herbariums for information search.

Article	e 10 - Sustainable use of components of biologic	al diversity	
	n Article 10(a), has your country integrated consideration of the use of biological resources into national decision-making?	e conservation and	
a) No			
b) No	, but steps are being taken		
c) Ye	s, in some relevant sectors (please provide details below)		
d) Ye	s, in most relevant sectors (please provide details below)	х	
	formation on integrating consideration of conservation and sustainal into national decision-making.	ole use of biological	
The various legislative frame work on biodiversity taken at national level provide for institutional bodies for the protection, conservation and management of biological resources in Botswana. An environment chapter was included in the National Development Plan 9 and it will be subject to an audit during mid term review to evaluate how the ministries and councils have performed.			
	On Article 10(b), has your country adopted measures relating to to cest hat avoid or minimize adverse impacts on biological diversity?	he use of biological	
a) No			
b) No	, but potential measures are under review		
c) Ye	s, some measures are in place (please provide details below)	х	
	s, comprehensive measures are in place (please provide details elow)		
	formation on the measures adopted relating to the use of biological resadverse impacts on biological diversity.	sources that avoid or	
Botswana has developed various legislations for the protection, conservation and sustainable use of biological resources. These legislations regulate the use, protection and management of biological resources. Outside legislative framework, institutional machinery exists for the management, conservation and protection of biological resources. Examples are harvesting of grass and mophane worm.			

72. On Article 10(c), has your country put in place measures that procustomary use of biological resources that is compatible with conservation requirements?	
a) No	
b) No, but potential measures are under review	
c) Yes, some measures are in place (please provide details below)	х
d) Yes, comprehensive measures are in place (please provide details below)	
Further information on the measures that protect and encourage customa resources that is compatible with conservation or sustainable use requirements.	ry use of biological
There are policy frameworks such as the Rural Development Policy and CBN encourage customary use of biological resources and are compatible with conseruse requirements.	
73. On Article 10(d), has your country put in place measures that he develop and implement remedial action in degraded areas where biologica reduced?	
a) No	
b) No, but potential measures are under review	
c) Yes, some measures are in place (please provide details below)	x
d) Yes, comprehensive measures are in place (please provide details below)	
Further information on the measures that help local populations develop and action in degraded areas where biodiversity has been reduced.	implement remedial
Community participation in biodiversity conservation and the use of local/tradit practices has help locals to be directly involved in managing natural resources responsibility which includes making management decisions.	
74. Plas your country identified indicators and incentive measures for seconservation and sustainable use of biodiversity? (decision V/24)	ectors relevant to the
a) No	
b) No, but assessment of potential indicators and incentive measures is under way	
c) Yes, indicators and incentive measures identified (please describe below)	х
Further comments on the identification of indicators and incentive measures for the conservation and sustainable use of biodiversity.	r sectors relevant to
Incentives measures identified include Resources use charges, granting of rescommunities, land privatization and resource tendering for tourism.	source user rights to
75. Plas your country implemented sustainable use practices, programme sustainable use of biological diversity, especially in pursuit of poverty alleviates.	
a) No	
b) No, but potential practices, programmes and policies are under review	

details below)						
d) Yes, comprehensive policies and programmes are in place (please provide details below)						
Further information on sustainable use programmes and policies.						
Natural resources are an important source of livelihood for most individuals. If therefore contributes to rural livelihoods. Government has provided through the diversification, opportunities for local communities to benefit from the sustaina utilization of resources in their localities. The commercial utilization of biodivers thatch grass, reeds, baskets, devils claws and mophane worms has alleviate communities and at the same time given communities the responsibilities of coresources.	e process of economic able conservation and sity resources such as ted poverty in rural					
_						
<b>76.</b> Plas your country developed or explored mechanisms to involve initiatives on the sustainable use of biodiversity? (decision V/24)	the private sector in					
a) No						
b) No, but mechanisms are under development						
c) Yes, mechanisms are in place (please describe below)	х					
Further comments on the development of mechanisms to involve the private sthe sustainable use of biodiversity.	sector in initiatives on					
The tourism policy calls for the development of ecotourism projects and this sector an opportunity to be involved in the sustainable use of biodiversity. Son a few sanctuaries are run by the private sector giving them the opportunity to natural resources.	ne nature reserve and					
77. Has your country initiated a process to apply the Addis Ababa Principl the Sustainable Use of Biodiversity? (decision VII/12)	les and Guidelines for					
	les and Guidelines for					
the Sustainable Use of Biodiversity? (decision VII/12)						
the Sustainable Use of Biodiversity? (decision VII/12)  a) No						
a) No b) No, but the principles and guidelines are under review						
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned	X					
the Sustainable Use of Biodiversity? (decision VII/12)  a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information)  Further information on the process to apply the Addis Ababa Principles and	X					
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information)  Further information on the process to apply the Addis Ababa Principles an Sustainable Use of Biodiversity.	X					
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information)  Further information on the process to apply the Addis Ababa Principles an Sustainable Use of Biodiversity.	X  d Guidelines for the					
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information) Further information on the process to apply the Addis Ababa Principles an Sustainable Use of Biodiversity. We are not up to date with the principles  78. Has your country taken any initiative or action to develop and trans provide financial resources to assist in the application of the Addis A	X  d Guidelines for the					
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information) Further information on the process to apply the Addis Ababa Principles an Sustainable Use of Biodiversity. We are not up to date with the principles  78. Has your country taken any initiative or action to develop and trans provide financial resources to assist in the application of the Addis A Guidelines for the Sustainable Use of Biodiversity? (decision VII/12)	x  d Guidelines for the  fer technologies and Ababa Principles and					
a) No b) No, but the principles and guidelines are under review c) Yes, a process is being planned d) Yes, a process has been initiated (please provide detailed information)  Further information on the process to apply the Addis Ababa Principles an Sustainable Use of Biodiversity.  We are not up to date with the principles  78. Has your country taken any initiative or action to develop and trans provide financial resources to assist in the application of the Addis A Guidelines for the Sustainable Use of Biodiversity? (decision VII/12) a) No	x  d Guidelines for the  fer technologies and Ababa Principles and					

Further comments resources to assist i Use of Biodiversity.			3	•	

# **Biodiversity and Tourism**

blodiversity and rourism		
79. Plas your country established mechanisms to assess, monitor and measure the impact of tourism on biodiversity?		
a) No		
b) No, but mechanisms are under development		
c) Yes, mechanisms are in place (please specify below)	х	
d) Yes, existing mechanisms are under review		
Further comments on the establishment of mechanisms to assess, monitor and measure the impact of tourism on biodiversity.		
Mechanisms are in place to reduce pressure exerted on biodiversity by tourism through the policy of 'high cost' tourism. This reduces the number of tourist in tourism destination areas and the number of activities conducted in such areas but maximizes economic returns from tourism.		
80. Plas your country provided educational and training programmes to the tourism operators so as to increase their awareness of the impacts of tourism on biodiversity and upgrade the technical capacity at the local level to minimize the impacts? (decision V/25)		
a) No		
b) No, but programmes are under development		
c) Yes, programmes are in place (please describe below)	х	
Further comments on educational and training programmes provided to tourism operators.		
The tourism master plan has identified a set of priority areas of consideration including community/citizen involvement in the tourism industry, awareness, education and training as well as upgrading of technical capacity at local level. Tour operators are trained in tourist guiding.		
<b>81.</b> Does your country provide indigenous and local communities with capacity-building and financial resources to support their participation in tourism policy-making, development planning, product development and management? (decision VII/14)		
a) No		
b) No, but relevant programmes are being considered		
c) Yes, some programmes are in place (please provide details below)	х	
d) Yes, comprehensive programmes are in place (please provide details below)		
Further comments in the capacity-building and financial resources provided to	indigenous and local	

Further comments in the capacity-building and financial resources provided to indigenous and local communities to support their participation in tourism policy-making, development planning, product development and management.

The Eco-tourism unit in the department of tourism enables the development of closer and effective working relationships with individuals and communities to intensify tourism awareness and skill development programmes, thereby empowering individuals and communities with much needed tourism knowledge and the capacity to undertake their own tourism projects.

<b>82.</b> Has your country integrated the Guidelines on Biodiversity and Tourisn development or review of national strategies and plans for tourism d biodiversity strategies and actions plans, and other related sectoral strategies.	evelopment, national
a) No, but the guidelines are under review	
<ul> <li>b) No, but a plan is under consideration to integrate some principles of the guidelines into relevant strategies</li> </ul>	
c) Yes, a few principles of the guidelines are integrated into some sectoral plans and NBSAPs (please specify which principle and sector)	
d) Yes, many principles of the guidelines are integrated into some sectoral plans and NBSAPs (please specify which principle and sector)	x
Further information on the sectors where the principles of the Guidelines on Biodiversity and Tourism Development are integrated.	

Tourism development is integrated into the National Development Plan (NDP), District Development plans (DDP), the tourism and eco-tourism strategy and the National Biodiversity Strategy and Action Plan

#### Box XLIX.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The vision 2016 states that "the challenge of preserving the environment and making prudent use of the natural resource base of Botswana is crucial to its survival and future prosperity. To achieve this goal, the Department of Tourism shifted the tourism industry away from a total dependence on wildlife and wilderness elements of the tourism products, to eco-tourism to empower individuals and communities through effectively involving them in all aspect of the industry, providing tourism awareness and skills, knowledge and capacity to undertake the management, conservation and the sustainable use of the tourism resources.

### Article 11 - Incentive measures

83. Plas your country established programmes to identify and adopt economically and socially sound measures that act as incentives for the conservation and sustainable use of components of biological diversity?	
a) No	
b) No, but relevant programmes are under development	
c) Yes, some programmes are in place (please provide details below)	X
d) Yes, comprehensive programmes are in place (please provide details below)	
Further comments on the programmes to identify and adopt incentives for the conservation and sustainable use of biodiversity.	
The CBNRM and the Ecotourism Strategy seeks to establish an effective resources manager system and support economic growth and diversification measures. Biodiversity managen	

most communities have depended on resources utilization for livelihoods.		
84. Plas your country developed the mechanisms or approaches incorporation of both market and non-market values of biological diversity policies and programmes and other relevant areas? (decisions III/18 and IV/	y into relevant plans,	
a) No		
b) No, but relevant mechanisms are under development		
c) Yes, mechanisms are in place (please provide details below)	х	
d) Yes, review of impact of mechanisms available (please provide details below)		
Further comments on the mechanism or approaches to incorporate market and biodiversity into relevant plans, policies and programmes.	non-market values of	
Direct and indirect methods are used to assess sustainable resources use in Botswana, e.g. valuing of the main parks using contingent valuation and the valuing of direct use of rangeland using market based alternative valuation methods and the travel-cost method to value the ecosystem or resources use.		
85. Plas your country developed training and capacity-building progra incentive measures and promote private-sector initiatives? (decision III/18)	immes to implement	
a) No		
b) No, but relevant programmes are under development		
c) Yes, some programmes are in place	х	
d) Yes, many programmes are in place		
	ļ	
	J	
<b>86.</b> Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (de	ng and implementing	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir	ng and implementing	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity?	ng and implementing	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (deap) No	ng and implementing ecision VI/15)	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (dea) No  b) Yes (please provide details below)  Further information on the proposals considered when designing and implementations.	x  nenting the incentive  s, has specific policy restry, fisheries and tilization and covers	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (deal) No  b) Yes (please provide details below)  Further information on the proposals considered when designing and implemeasures for the conservation and sustainable use of biodiversity.  The policy framework in place covers non-domesticated biological resources components for wildlife in communal areas, parks and communities, for agriculture resources. The policy combines resources conservation and unequitable distribution of biodiversity benefits, provides financial and technical sections.	x  nenting the incentive  s, has specific policy restry, fisheries and tilization and covers support, and capacity  sies or practices that	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (definition as a local provide details below)  Further information on the proposals considered when designing and implementation and sustainable use of biodiversity.  The policy framework in place covers non-domesticated biological resources components for wildlife in communal areas, parks and communities, for agriculture resources. The policy combines resources conservation and unequitable distribution of biodiversity benefits, provides financial and technical story implementation.  87. Has your country made any progress in removing or mitigating policy generate perverse incentives for the conservation and sustainable use of	x  nenting the incentive  s, has specific policy restry, fisheries and tilization and covers support, and capacity  sies or practices that	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designing incentive measures for the conservation and sustainable use of biodiversity? (deal) No  b) Yes (please provide details below)  Further information on the proposals considered when designing and implementations for the conservation and sustainable use of biodiversity.  The policy framework in place covers non-domesticated biological resources components for wildlife in communal areas, parks and communities, for agriculture resources. The policy combines resources conservation and unequitable distribution of biodiversity benefits, provides financial and technical story implementation.  87. Has your country made any progress in removing or mitigating policy generate perverse incentives for the conservation and sustainable use of (decision VII/18)	x  nenting the incentive  s, has specific policy restry, fisheries and tilization and covers support, and capacity  sies or practices that	
86. Does your country take into consideration the proposals for the design a incentive measures as contained in Annex I to decision VI/15 when designir incentive measures for the conservation and sustainable use of biodiversity? (deap No b) Yes (please provide details below)  Further information on the proposals considered when designing and implementation and sustainable use of biodiversity.  The policy framework in place covers non-domesticated biological resources components for wildlife in communal areas, parks and communities, for agriculture resources. The policy combines resources conservation and unequitable distribution of biodiversity benefits, provides financial and technical story implementation.  87. Has your country made any progress in removing or mitigating policing generate perverse incentives for the conservation and sustainable use of (decision VII/18)  a) No	x nenting the incentive s, has specific policy restry, fisheries and tilization and covers support, and capacity cies or practices that biological diversity?	

Further information on perverse incentives identified and/or removed or mitigated.

A review is looking into agricultural subsidy policy, which acts as a biodiversity disincentive.

### Box L.

a) No

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

## Article 12 - Research and training

88. ? On Article 12(a), has your country established programmes for scientific and technical

	education and training in measures for the identification, conservation and biological diversity and its components?	sustainable use of
	a) No	
	b) No, but programmes are under development	
	c) Yes, programmes are in place (please provide details below)	x
Further information on the programmes for scientific and technical education and training in the measures for identification, conservation and sustainable use of biodiversity.  Programmes have been implemented by different biodiversity expertise in the country such as tertiary institutions, government institutions involved with environmental and biodiversity issues, environmental NGOs and selected companies in the private sector.		and training in the
	89. On Article 12(b), does your country promote and encourage research, which contributes to the conservation and sustainable use of biological diversity?	

b) Yes (please provide details below) X

Further information on the research, which contributes to the conservation and sustainable use of

biodiversity.

For a sound conservation and sustainable use of biodiversity, there is need for proper research and availability of information. All sectors involved in biodiversity carry out researches in their fields of

expert.

<b>90.</b> On Article 12(c), does your country promote and cooperate in the use of sbiological diversity research in developing methods for conservation and sustainaresources?	
a) No	

b) Yes (please provide details below)
---------------------------------------

Further information on the use of scientific advances in biodiversity research in developing methods for conservation and sustainable use of biodiversity.

Botswana is promoting and cooperating in the scientific advances in biodiversity researches to have easily accessible and user friendly information on biodiversity, have computerized records to avoid duplication of efforts and to protect sensitive information like information on rare and endangered species.

### Box LI.

Please elaborate below on the implementation of this article specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

VI/19? (decision VI/19)

b) No, but some programmes are under development

c) Yes, some activities are being undertaken (please provide details

a) No

Research and training are crucial for the understanding of biodiversity, maintaining, conservation and understanding of the habitat and treats. These are important tools in decision making because decisions are taken based on the information available. Training provides understanding for long-term sustainability of natural resources and at implementing national policies, strategies and for the support at community levels.

### Article 13 - Public education and awareness

Article 13 - Public education and awareness	S
<b>91.</b> Is your country implementing a communication, education and public awareness strategy and promoting public participation in support of the Convention? (Goal 4.1 of the Strategic Plan)	
a) No	
b) No, but a CEPA strategy is under development	
<ul> <li>Yes, a CEPA strategy developed and public participation promoted to a limited extent (please provide details below)</li> </ul>	
<ul> <li>d) Yes, a CEPA strategy developed and public participation promoted to a significant extent (please provide details below)</li> </ul>	x
Further comments on the implementation of a CEPA strategy and the participation in support of the Convention.	promotion of public
CEPA and promotion of public participation is implemented in every policy dealing with conservation, maintenance and management of ecosystem such as the Tourism Act, Agriculture, Eco-tourism, CBNRM, NBSAP and all National Development Plans. This is in view of the critical importance of biodiversity to our livelihoods, diversification of our economy and the benefits that are derived for the use of natural resources.	
<b>92.</b> Is your country undertaking any activities to facilitate the implementation of work on Communication, Education and Public Awareness as contained in the	

87	

Χ

below)		
d) Yes, many activities are being undertaken (please provide details below)		
Further comments on the activities to facilitate the implementation of the programme of work on CEPA.		
A CEPA programme in place has accomplished several initiatives including integration of environmental education into the school curricula and enhancement of community involvement in natural resources management through district conservation seminars and other initiatives.		
<b>93</b> . Is your country strongly and effectively promoting biodiversity-related issues through the press, the various media and public relations and communications networks at national level? (decision VI/19)		
a) No		
b) No, but some programmes are under development		
c) Yes, to a limited extent (please provide details below)		
d) Yes, to a significant extent (please provide details below)	X	
Further comments on the promotion of biodiversity-related issues through the press, the various media and public relations and communications networks at national level.		

**94.** Does your country promote the communication, education and public awareness of biodiversity at the local level? (decision VI/19)

Issues of biodiversity related are covered through all sources of media (radios, Newspapers and television), in the school curricula, at other events like State of the nation address, at environmental

fairs, exhibitions and trade fairs and districts seminars.

a) No	
b) Yes (please provide details below)	X

Further information on the efforts to promote the communication, education and public awareness of biodiversity at the local level.

At districts exhibitions and trade fairs and districts seminars and kgotla (Community meetings) meetings.

**95.** Is your country supporting national, regional and international activities prioritized by the Global Initiative on Education and Public Awareness? (decision VI/19)

a) No	X
b) No, but some programmes are under development	
c) Yes, some activities supported (please provide details below)	
d) Yes, many activities supported (please provide details below)	

Further comments on the support of national, regional and international activities prioritized by the Global Initiative on Education and Public Awareness.

	as your country developed adequate capacity to deliver initiatives on commublic awareness?	nunication, education
a)	No	
b)	No, but some programmes are under development	
c)	Yes, some programmes are being implemented (please provide details below)	х
d)	Yes, comprehensive programmes are being implemented (please provide details below)	
	er comments on the development of adequate capacity to deliver initiatives tion and public awareness.	s on communication,
result	ration of communication, education and public awareness into national posed in growing societal concern and interest in the environment. NGOs also creating public awareness, which is a precursor of involvement. This has	so play an important

capacity to deliver on communication, education and public awareness.	
97. Does your country promote cooperation and exchange programmes for b and awareness at the national, regional and international levels? (decision)	•
a) No	
b) Yes (please provide details below)	x
Further comments on the promotion of cooperation and exchange programmeducation and awareness, at the national, regional and international levels.	mes for biodiversity
The Country is cooperating with private organizations, NGOs and international programmes of biodiversity education and awareness.	ational agencies on

98	Is your country undertaking some CEPA activities for implementation o and thematic programmes of work adopted under the Convention?	f crosscutting issues
a)	No (please specify reasons below)	
b)	Yes, some activities undertaken for some issues and thematic areas (please provide details below)	x
c)	Yes, many activities undertaken for most issues and thematic areas (please provide details below)	
d)	Yes, comprehensive activities undertaken for all issues and thematic areas (please provide details below)	
	comments on the CEPA activities for implementation of cross-cutting mmes of work adopted under the Convention.	issues and thematic
implem	biodiversity expertise and information divide between many differe tentation of cross-cutting issues has been addressed by bringing the sec te of achieving the CEPA goals.	·

99. 2 Does your country support initiatives by major groups, key actors and stakeholders that
integrate biological diversity conservation matters in their practice and education programmes as
well as into their relevant sectoral and cross-sectoral plans, programmes and policies? (decision
IV/10 and Goal 4.4 of the Strategic Plan)

a) No
b) Yes (please provide details below) X

Further comments on the initiatives by major groups, key actors and stakeholders that integrate biodiversity conservation in their practice and education programmes as well as their relevant sectoral and cross-sectoral plans, programmes and policies.

Different sectors, private sectors, NGOs and institutions that have integrated biodiversity conservation into their practice and education programmes have always been supported.

**100.** Is your country communicating the various elements of the 2010 biodiversity target and establishing appropriate linkages to the Decade on Education for Sustainable Development in the implementation of your national CEPA programmes and activities? (decision VII/24)

a) No		
b) No, but some programmes are under development		x
<ul> <li>Yes, some programmes developed and activities undertaken purpose (please provide details below)</li> </ul>	for this	
d) Yes, comprehensive programmes developed and many undertaken for this purpose (please provide details below)	activities	

Further comments on the communication of the various elements of the 2010 biodiversity target and the establishment of linkages to the Decade on Education for Sustainable Development.

The NBSAP is communicating the elements of 2010 biodiversity target.

### Box LII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

# Article 14 - Impact assessment and minimizing adverse impacts

a) No

**101.** On Article 14.1(a), has your country developed legislation requiring an environmental impact assessment of proposed projects likely to have adverse effects on biological diversity?

b) No, legislation is still in early stages of development	
c) No, but legislation is in advanced stages of development	
d) Yes, legislation is in place (please provide details below)	x
e) Yes, review of implementation available (please provide details below)	
Further information on the legislation requiring EIA of proposed projects like effects on biodiversity.	ely to have adverse
EIA has always been carried out for all projects even though the legislation is so law has been passed by parliament and will be passed in the near future.	till in draft form. The
<b>102.</b> On Article 14.1(b), has your country developed mechanisms to consideration is given to the environmental consequences of national programmare likely to have significant adverse impacts on biological diversity?	
a) No	
b) No, mechanisms are still in early stages of development	
c) No, but mechanisms are in advanced stages of development	Х
d) Yes, mechanisms are in place (please provide details below)	
Further comments on the mechanisms developed to ensure that due consider environmental consequences of national programmes and policies that are likel adverse impacts on biodiversity.	
All project and plans will continue to be assessed to determine their impact before they are carried out and mitigation measures adopted to avoid negative in	
103. 2 On Article 14.1(c), is your country implementing bilateral, regional agreements on activities likely to significantly affect biological diversity ou jurisdiction?	
a) No	
b) No, but assessment of options is in progress	
c) Yes, some completed, others in progress (please provide details below)	
d) Yes (please provide details below)	×
Further information on the bilateral, regional and/or multilateral agreements of significantly affect biodiversity outside your country's jurisdiction.	on activities likely to
Bilateral and regional agreements on activities that may adversely affect biolo been signed, e.g. the shared river basin treaties and regional protocols.	gical resources have

104. ? On Article 14.1(d), has your country put mechanisms in place to danger or damage originating in your territory to biological diversity in the Parties or in areas beyond the limits of national jurisdiction?	
a) No	
b) No, mechanisms are still in early stages of development	
c) No, but mechanisms are in advanced stages of development	
d) Yes, mechanisms are in place based on current scientific knowledge	X
105. 2 On Article 14.1(e), has your country established national mechan response to activities or events which present a grave and imminent diversity?	
a) No	
b) No, mechanisms are still in early stages of development	х
c) No, but mechanisms are in advanced stages of development	
d) Yes, mechanisms are in place (please provide details below)	
Further information on national mechanisms for emergency response to the active present a grave and imminent danger to biodiversity.	vities or events which
National Disaster Management Office is responsible for assisting victims and plans.	developing contigent
106. Is your country applying the Guidelines for Incorporating Biodiversity Environment-Impact-Assessment Legislation or Processes and in Strategi as contained in the annex to decision VI/7 in the context of the implement	c Impact Assessment
a) No	
b) No, but application of the guidelines under consideration	
c) Yes, some aspects being applied (please specify below)	
d) Yes, major aspects being applied (please specify below)	x
Further comments on application of the guidelines.	
Projects that affect environment negatively affect the biodiversity in that are incorporating biodiversity-related issues into Environmental-Impact-Assessment been taken into consideration when drafting the EIA legislation.	

107. On Article 14 (2), has your country put in place national legislative, admeasures regarding liability and redress for damage to biological diversity?	
a) No	
b) Yes (please specify the measures)	x
Further comments on national legislative, administrative or policy measures redress for damage to biological diversity.	egarding liability and
Measures are in place regarding liability and redress for damage to biodiversity, act and other legislation provides such measures.	the natural resources
108. Has your country put in place any measures to prevent damage to biologic	cal diversity?
a) No	
b) No, but some measures are being developed	
c) Yes, some measures are in place (please provide details below)	x
d) Yes, comprehensive measures are in place (please provide details below)	
Further information on the measures in place to prevent damage to biological div	ersity.
The Herbage Preservation act, Natural Resources Conservation and Developm Resources Conservation Act, EIA Act, Forestry Act in addition to Tourism A National Park Act prevent damage to biological diversity.	
109. Is your country cooperating with other Parties to strengthen capacities at the prevention of damage to biodiversity, establishment and implem legislative regimes, policy and administrative measures on liability ar VI/11)	entation of national
a) No	
b) No, but cooperation is under consideration	
c) No, but cooperative programmes are under development	
d) Yes, some cooperative activities being undertaken (please provide details below)	x
e) Yes, comprehensive cooperative activities being undertaken (please provide details below)	
Further comments on cooperation with other Parties to strengthen capacities f damage to biodiversity.	or the prevention of

Botswana has some cooperative understanding with its neighboring countries.

#### Box LIII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The undertaking of Environmental Impact Assessment (EIA) is encouraged for all large-scale projects the legislation is in place to support the efforts. Efforts are done to cooperate with other countries to strengthen capacities for the prevention of damage to biodiversity.

## Article 15 - Access to genetic resources

sound uses by other Parties, on the basis of prior informed consent and mutually agreed terms, in accordance with paragraphs 2, 4 and 5 of Article 15?	110. Planting endeavored to facilitate access to genetic resources for	
		igreed terms, in

a)	No	
b)	Yes (please provide details below)	x

Further information on the efforts taken by your country to facilitate access to genetic resources for environmentally sound uses by other Parties, on the basis of prior informed consent and mutually agreed terms.

Access to genetic resource use by other parties has always been run according to the objectives of the convention especially the sustainable use of biological diversity components and free and easy access to genetic resources by all, as long as consent is granted and mutual agreement reached.

**111.** Plas your country taken measures to ensure that any scientific research based on genetic resources provided by other Parties is developed and carried out with the full participation of such Parties, in accordance with Article 15(6)?

a) No	
b) No, but potential measures are under review	
c) Yes, some measures are in place (please provide details below)	x
d) Yes, comprehensive measures are in place (please provide details below)	

Further information on the measures to ensure that any scientific research based on genetic resources provided by other Contracting Parties is developed and carried out with the full participation of such Contracting Parties.

An authority has been designated to foresee that researches based on genetic resources are carried out with the full participation of scientific researchers permitted to do the research.

112. Has your country taken measures to ensure the fair and equitable sharesearch and development and of the benefits arising from the commercial and resources with any Contracting Party providing such resources, in accordance with	other use of genetic
a) No	
b) No, but potential measures are under review	
c) Yes, some measures are in place (please provide details below)	х
d) Yes, comprehensive legislation is in place (please provide details below)	
<ul> <li>e) Yes, comprehensive statutory policy or subsidiary legislation are in place (please provide details below)</li> </ul>	
<ul> <li>f) Yes, comprehensive policy and administrative measures are in place (please provide details below)</li> </ul>	
Further information on the type of measures taken.	
Mutual agreement is always reached to ensure the fair and equitable sharing of the commercial use of genetic resources.	benefits arising from
113. In developing national measures to address access to genetic resources has your country taken into account the multilateral system of access and benefithe International Treaty on Plant Genetic Resources for Food and Agriculture?	
a) No	
4, 116	
b) Yes (please provide details below)	x
	system of access and
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral separation benefit-sharing as set out in the International Treaty on Plant Genetic Reso	system of access and surces for Food and etic Resources Policy rms to plant genetic
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral side benefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral sibenefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and undertaking of the CBD.  114. Is your country using the Bonn Guidelines when developing and administrative or policy measures on access and benefit-sharing and/or when rand other arrangements under mutually agreed terms for access and benefit.	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral sibenefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and undertaking of the CBD.  114. Is your country using the Bonn Guidelines when developing and administrative or policy measures on access and benefit-sharing and/or when rand other arrangements under mutually agreed terms for access and benefit VII/19A)	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts it-sharing? (decision
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral spenefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and undertaking of the CBD.  114. Is your country using the Bonn Guidelines when developing and administrative or policy measures on access and benefit-sharing and/or when rand other arrangements under mutually agreed terms for access and benefit VII/19A)  a) No	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts it-sharing? (decision
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral side benefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and undertaking of the CBD.  114. Is your country using the Bonn Guidelines when developing and administrative or policy measures on access and benefit-sharing and/or when rand other arrangements under mutually agreed terms for access and benefit VII/19A)  a) No  b) No, but steps being taken to do so (please provide details below)	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts it-sharing? (decision
b) Yes (please provide details below)  Further information on national measures taken which consider the multilateral spenefit-sharing as set out in the International Treaty on Plant Genetic Reso Agriculture.  The National Genetic Resources Committee prepared the Plant and Animal Genetic allow for the realization of the farmer's rights, access on mutual agreed ter resources, include access to ex situ collection of plant genetic resources and undertaking of the CBD.  114. Is your country using the Bonn Guidelines when developing and administrative or policy measures on access and benefit-sharing and/or when rand other arrangements under mutually agreed terms for access and benefit vil/19A)  a) No  b) No, but steps being taken to do so (please provide details below)  c) Yes (please provide details below)  Please provide details and specify successes and constraints in the implement	system of access and surces for Food and etic Resources Policy rms to plant genetic d to harmonize the drafting legislative, negotiating contracts it-sharing? (decision

**115.** Has your country adopted national policies or measures, including legislation, which address the role of intellectual property rights in access and benefit-sharing arrangements (i.e. the issue of disclosure of origin/source/legal provenance of genetic resources in applications for intellectual property rights where the subject matter of the application concerns, or makes use of, genetic resources in its development)?

a) No	
<ul> <li>b) No, but potential policies or measures have been identified (please specify below)</li> </ul>	
<ul> <li>No, but relevant policies or measures are under development (please specify below)</li> </ul>	x
d) Yes, some policies or measures are in place (please specify below)	
e) Yes, comprehensive policies or measures adopted (please specify below)	

Further information on policies or measures that address the role of IPR in access and benefit-sharing arrangements.

Negotiations are taking place on technology ownership and control over patented goods. The use of traditional knowledge is high in Botswana and holders of such knowledge are entitled to share equitably and fairly in the benefits derived from the use of such knowledge by others.

**116.** Has your country been involved in capacity-building activities related to access and benefit-sharing?

a) Yes (please provide details below)

b) No

Please provide further information on capacity-building activities (your involvement as donor or recipient, key actors involved, target audience, time period, goals and objectives of the capacity-building activities, main capacity-building areas covered, nature of activities). Please also specify whether these activities took into account the Action Plan on capacity-building for access and benefit-sharing adopted at COP VII and available in annex to decision VII/19F.

Capacity building is carried out either through training of local communities, group of people on the sustainable utilization of genetic resources, capacity of communities to participate in the managing of biodiversity resources and opportunities that biodiversity provides for them, i.e. the benefits they can derive from the use of resources. Such capacity building courses can either be seminars and workshops last a week or a month depending on the content of the course. Capacity building can also be done to strengthen extension services through NGOs and or Government to rural communities.

### Box LIV.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Genetic resources and benefit sharing can be important, as a source of sustainable economic development, providing stakeholders and individuals with benefits such as improve capacity for conservation, new products, income to meet basic needs, food security as well as support for value-added scientific research. For these opportunities to be achieved, it is important to conserve our resources.

# Article 16 - Access to and transfer of technology

117. On Article 16(1), has your country taken measures to provide or facilitate access for and transfer to other Parties of technologies that are relevant to the conservation and sustainable use of biological diversity or make use of genetic resources and do not cause significant damage to the environment?		
a) No	x	
b) No, but potential measures are under review		
c) Yes, some measures are in place (please provide details below)		
d) Yes, comprehensive measures are in place (please provide details below)		
Further information on the measures to provide or facilitate access for and transtechnologies that are relevant to the conservation and sustainable use of biodivide genetic resources and do not cause significant damage to the environment.		
Different sectors such as Rural Industries Innovation Centre, Botswana Technology Agricultural Research and National Food Technology Research Centre that have genetic resources are equally responsible for the access and transfer of technology mandates.	responsibilities in the	
<b>118</b> On Article 16(3), has your country taken measures so that Parties v resources are provided access to and transfer of technology which make u on mutually agreed terms?		
a) No		
b) No, but potential measures are under review		
c) Yes, some measures are in place		
d) Yes, comprehensive legislation is in place		
e) Yes, comprehensive statutory policy or subsidiary legislation are in place		
f) Yes, comprehensive policy and administrative arrangements are in place		
g) Not applicable	x	
119. 2 On Article 16(4), has your country taken measures so that the private sector facilitates access to joint development and transfer of relevant technology for the benefit of Government institutions and the private sector of developing countries?		
a) No		
b) No, but potential measures are under review		
c) Yes, some policies and measures are in place (please provide details below)	х	
d) Yes, comprehensive policies and measures are in place (please provide details below)		
e) Not applicable		
Further information on the measures taken.		
Private sector facilitates access to joint development and transfer of relevant technology for the benefit of Government institutions, i.e. in the field of taxonomy where joint development and sharing		

of information is yielding better results.

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Box	П	١	I

Please elaborate below on the implementation of this article specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

N/A

### Programme of Work on transfer of technology and technology cooperation

Programme of Work on transfer of technology and technology cooperation		
120. Has your country provided financial and technical support and training to assist in the implementation of the programme of work on transfer of technology and technology cooperation? (decision VII/29)		
a)	No	
b)	No, but relevant programmes are under development	
c)	Yes, some programmes being implemented (please provide details below)	x
d)	Yes, comprehensive programmes being implemented (please provide details below)	
	comments on the provision of financial and technical support and traintation of the programme of work on transfer of technology and technology	
	tor responsible for access and transfer of technology has been supportly by the Government.	orted financially and
<b>121.</b> Is your country taking any measures to remove unnecessary impediments to funding of multi-country initiatives for technology transfer and for scientific and technical cooperation? (decision VII/29)		
a)	No	Х
b)	No, but some measures being considered	
c)	Yes, some measures are in place (please provide details below)	
d)	Yes, comprehensive measures are in place (please provide details below)	
Further comments on the measures to remove unnecessary impediments to funding of multi-country initiatives for technology transfer and for scientific and technical cooperation.		

122. Has your country made any technology assessments addressing technology needs, opportunities and barriers in relevant sectors as well as related needs in capacity building? (annex to decision VII/29)	
a) No	
b) No, but assessments are under way	
c) Yes, basic assessments undertaken (please provide details below)	
d) Yes, thorough assessments undertaken (please provide details below)	
Further comments on technology assessments addressing technology needs barriers in relevant sectors as well as related needs in capacity building.	s, opportunities and
N/A	
<b>123.</b> Has your country made any assessments and risk analysis of the potential associated costs with the introduction of new technologies? (annex to decise)	
a) No	X
b) No, but assessments are under way	
c) Yes, some assessments undertaken (please provide details below)	
d) Yes, comprehensive assessments undertaken (please provide details below)	
Further comments on the assessments and risk analysis of the potential associated costs with the introduction of new technologies.	benefits, risks and
N/A	
<b>124.</b> Has your country identified and implemented any measures to devappropriate information systems for technology transfer and cooperation capacity building needs? (annex to decision VII/29)	
a) No	X
b) No, but some programmes are under development	
c) Yes, some programmes are in place and being implemented (please provide details below)	
d) Yes, comprehensive programmes are being implemented (please provide details below)	
Further comments on measures to develop or strengthen appropriate infortechnology transfer and cooperation.	mation systems for
N/A	
,	
125. Has your country taken any of the measures specified under Target 3.2 work as a preparatory phase to the development and implementation of radministrative, legislative and policy frameworks to facilitate cooperation and adaptation of technologies of relevance to the Convention? (annex to detail the convention)	national institutional, as well as access to
and adaptation of technologies of relevance to the convention? (alliex to the	recision VIII/ JUI
a) No	decision VII/29)

b)	No, but a few measures being considered	x
c)	Yes, some measures taken (please specify below)	
d)	Yes, many measures taken (please specify below)	
implemer	comments on the measures taken as a preparatory phase to the nation of national institutional, administrative, legislative and policy fraction as well as access to and adaptation of technologies of relevance to the	meworks to facilitate

### Box LVI.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

# Article 17 - Exchange of information

<b>126.</b> On Article 17(1), has your country taken measures to facilitate the exchange of information from publicly available sources with a view to assist with the implementation of the Convention and promote technical and scientific cooperation?		
a)	No	
b)	No, but potential measures are under review	
c)	Yes, some measures are in place	х
d)	Yes, comprehensive measures are in place	

### The following question (127) is for DEVELOPED COUNTRIES

127. On Article 17(1), do these measures take into account the special needs of developing countries and include the categories of information listed in Article 17(2), such as technical, scientific and socio-economic research, training and surveying programmes, specialized knowledge, repatriation of information and so on?		
a	) No	
b	Yes, but they do not include the categories of information listed in Article 17(2), such as technical, scientific and socio-economic research, training and surveying programmes, specialized knowledge, repatriation of information and so on	
c)	Yes, and they include categories of information listed in Article 17 (2), such as technical, scientific and socio-economic research, training and surveying programmes, specialized knowledge, repatriation of information and so on	

### Box LVII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Information exchange will encourage the use of and contribute in planning and decision-making process. Information or research data and results emanating from some research activities if shared for data sharing and or record keeping helps to keep the nation informed, provides an up-to-date information for decision making purpose and helps avoid duplication of efforts. Information made available or records of past and present research activities also help to guide future plans.

## Article 18 - Technical and scientific cooperation

<b>128.</b> On Article 18(1), has your country taken measures to promote international technical and scientific cooperation in the field of conservation and sustainable use of biological diversity?	
a) No	x
b) No, but potential measures are under review	
c) Yes, some measures are in place (please provide details below)	
<ul> <li>d) Yes, comprehensive measures are in place (please provide details below)</li> </ul>	
Further information on the management to promote intermediate all technical and econtific appropriate	

Further information on the measures to promote international technical and scientific cooperation.

Many of Botswana's ecosystems and biodiversity resources such as wildlife span and cross national borders, therefore, warranting regional collaboration, scientific cooperation and agreements in the field of conservation and sustainable use of biodiversity. This has been recognized and addressed through various Transfrontier park initiatives. Taxonomy is another field where regional collaboration and sharing of resources has been explored.

**129.** On Article 18(4), has your country encouraged and developed methods of cooperation for the development and use of technologies, including indigenous and traditional technologies, in

pursuance of the objectives of this Convention?		
a) No	х	
b) No, but relevant methods are under development		
c) Yes, methods are in place		
<b>130.</b> On Article 18(5), has your country promoted the establishmen programmes and joint ventures for the development of technologies relevant to Convention?	•	
a) No	х	
b) Yes (please provide some examples below)		
Examples for the establishment of joint research programmes and joint ventures of technologies relevant to the objectives of the Convention.	for the development	
Research activities in the field of microbiology and biochemistry require sophisti equipments and trained expertise, so regional joint ventures for development arbeen established to cut the costs.		
131. Has your country established links to non-governmental organizations other institutions holding important databases or undertaking significant diversity through the CHM? (decision V/14)		
a) No	x	
<li>b) No, but coordination with relevant NGOs, private sector and other institutions under way</li>		
c) Yes, links established with relevant NGOs, private sector and institutions		
The following question (132) is for DEVELOPED COUNTRIE	ES	
<b>132.</b> Has your country further developed the CHM to assist developing countries and countries with economies in transition to gain access to information in the field of scientific and technical cooperation? (decision V/14)		
a) No		
b) Yes, by using funding opportunities		
c) Yes, by means of access to, and transfer of technology		
d) Yes, by using research cooperation facilities		
e) Yes, by using repatriation of information		
f) Yes, by using training opportunities		
<li>g) Yes, by using promotion of contacts with relevant institutions, organizations and the private sector</li>		
h) Yes, by using other means (please specify below)		
Further comments on CHM developments to assist developing countries economies in transition to gain access to information in the field of scie cooperation.		

<b>133.</b> Has your country used CHM to make information available more useful	for researchers and
decision-makers? (decision V/14)	
`	

- a) Nob) No, but relevant initiatives under considerationX
- c) Yes (please provide details below)

Further comments on development of relevant initiatives.

The exchange and dissemination of information is a key in the achievement of the objectives of the CBD.

**134.** Has your country developed, provided and shared services and tools to enhance and facilitate the implementation of the CHM and further improve synergies among biodiversity-related Conventions? (decision V/14)

a) No
b) Yes (please specify services and tools below) X

Further comments on services and tools to enhance and facilitate the implementation of CHM and further improve synergies among biodiversity-related Conventions.

A CHM is not a stand-alone product, data providers and data users are partners. All sectors dealing with biodiversity related issues are part of the implementation team and this will improve synergy among all biodiversity related conventions through the sharing of information. A CHM will be developed in the second phase of the NBSAP Add on activities.

### Box LVIII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Regional and international collaboration, cooperation and consistency are important in the conservation, management and utilization of biodiversity and in the development of legal policy obligations, to increase markets and for sharing resources and reduce cost.

# Article 19 - Handling of biotechnology and distribution of its benefits

<b>135.</b> On Article 19(1), has your country taken measures to provide for the effective participation in biotechnological research activities by those Contracting Parties which provide the genetic resources for such research?		
a)	No	х
b)	No, but potential measures are under review	
c)	Yes, some measures are in place	
d)	Yes, comprehensive legislation are in place	
e)	Yes, comprehensive statutory policy and subsidiary legislation are in place	
f)	Yes, comprehensive policy and administrative measures are in place	
136. On Article 19(2), has your country taken all practicable measures to promote and advance priority access by Parties, on a fair and equitable basis, to the results and benefits arising from biotechnologies based upon genetic resources provided by those Parties?		
a)	No	
b)	No, but potential measures are under review	
c)	Yes, some measures are in place	х
d)	Yes, comprehensive measures are in place	

### Box LIX.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Botswana has applied the precautionary principle in dealing with biotechnology, as there is still lack of reliable scientific data on biotechnology issues such as long-term effects.

### Article 20 - Financial resources

### Box LX.

Please describe for each of the following items the quantity of financial resources, both internal and external, that have been utilized, received or provided, as applicable, to implement the Convention on Biological Diversity, on an annual basis, since your country became a Party to the Convention.

		3
a)	Budgetary allocations by national and local Governments as well as different sectoral ministries	N/A
b)	Extra-budgetary resources (identified by donor agencies)	N/A
c)	Bilateral channels (identified by donor agencies)	N/A
d)	Regional channels (identified by donor agencies)	US\$ (54,000 * 3 + 34,000 * 2) SABSP
e)	Multilateral channels (identified by donor agencies)	US\$ (359,000 + 91,000) BSAP and ADD-ON
f)	Private sources (identified by donor agencies)	N/A
g)	Resources generated through financial instruments, such as charges for use of biodiversity	N/A

### Box LXI.

Please describe in detail below any major financing programmes, such as biodiversity trust funds or specific programmes that have been established in your country.

There is no funding mechanism yet, but government will initiate activities

**137.** On Article 20(1), has your country provided financial support and incentives to those national activities that are intended to a chieve the objectives of the Convention?

a)	No	
b)	Yes, incentives only (please provide a list of such incentives below)	
c)	Yes, financial support only	
d)	Yes, financial support and incentives (please provide details below)	X

Further comments on financial support and incentives provided.

The country recognize the need for incentives for biodiversity and the need to mobilize financial resources to use on the conservation of resources and as such policy that are in place facilitate government's support both financial and technical to national activities that focus on the three critical

CBD areas.

# The next question (138) is for DEVELOPED COUNTRIES

138. On Article 20(2), has your country provided new and additional financial resources to enable developing country Parties to meet the agreed incremental costs to them of implementing measures which fulfill the obligations of the Convention?				
a) No				
b) Yes (please indicate the amount, on an annual basis, of new and additional financial resources your country has provided)				
Further comments on new and additional financial resources provided.				
The next question (139) is for DEVELOPING COUNTRIES OR COUNTRIES WITH ECONOMIES IN TRANSITION				
139. On Article 20(2), has your country received new and additional financial resources to enable it to meet the agreed full incremental costs of implementing measures which fulfill the obligations of the Convention?				
a) No	х			
b) Yes				
140. Plas your country established a process to monitor financial support to biodiversity, including support provided by the private sector? (decision V/11)				
a) No				
b) No, but procedures being established				
c) Yes (please provide details below)	х			
Further comments on processes to monitor financial support to biodiversity, including suppor provided by the private sector.				
All economic activities associated with biodiversity have been integrated into sectoral policies for monitoring in the NBSAP.				
141. Plas your country considered any measures like tax exemptions in national taxation systems to encourage financial support to biodiversity? (decision V/11)				
a) No	х			
<ul> <li>b) No, but exemptions are under development (please provide details below)</li> </ul>				
c) Yes, exemptions are in place (please provide details below)				
Further comments on tax exemptions for biodiversity-related donations.				

142. Has your country reviewed national budgets and monetary policies, including the effectiveness of official development assistance allocated to biodiversity, with particular attention paid to positive incentives and their performance as well as perverse incentives and ways and means for their removal or mitigation? (decision VI/16)		
a) No	x	
b) No, but review is under way		
c) Yes (please provide results of review below)		
Further comments on review of national budgets and monetary policies, including official development assistance.	the effectiveness of	
143. Is your country taking concrete actions to review and further integrate biodiversity considerations in the development and implementation of major international development initiatives, as well as in national sustainable development plans and relevant sectoral policies and plans? (decisions VI/16 and VII/21)		
a) No		
b) No, but review is under way		
c) Yes, in some initiatives and plans (please provide details below)  d) Yes, in major initiatives and plans (please provide details below)		
d) Yes, in major initiatives and plans (please provide details below)		
Further comments on review and integration of biodiversity considerations in relevant initiative policies and plans.		
The country has reviewed its sectoral policies and plans to determine whether or not there is adequate provision or protection of biological resources, habitat areas and individual species resources ownership, access to genetic resources, benefit sharing, research data and indigenous knowledge as well as examining international instruments that relate directly or indirectly to biodiversity so as to integrate biodiversity in development initiatives and national sustainable development plans.		
<b>144.</b> Is your country enhancing the integration of biological diversity into the sectoral development and assistance programmes? (decision VII/21)		
a) No		
a) No b) No, but relevant programmes are under development		
c) Yes, into some sectoral development and assistance programmes (please provide details below)	х	
d) Yes, into major sectoral development and assistance programmes (please provide details below)		
Further comments on the integration of biodiversity into sectoral development and programmes		
Reviews are done to find out whether or not national policies that relate to conservation management and protection of biodiversity adequately address the issues and whether they have been effectively utilized to protect biodiversity. This has helped the country to enhance the integration of biodiversity into sectoral development for better conservation, management are		

# The next question (145) is for DEVELOPED COUNTRIES

**145.** Please indicate with an "X" in the table below in which area your country has provided financial support to developing countries and/or countries with economies in transition. Please elaborate in the space below if necessary.

	Areas	Support provided
a)	Undertaking national or regional assessments within the framework of MEA (decision VI/8)	
b)	In-situ conservation (decision V/16)	
c)	Enhance national capacity to establish and maintain the mechanisms to protect traditional knowledge (decision VI/10)	
d)	Ex-situ conservation (decision V/26)	
e)	Implementation of the Global Strategy for Plant Conservation (decision VI/9)	
f)	Implementation of the Bonn Guidelines (decision VI/24)	
g)	Implementation of programme of work on agricultural biodiversity (decision V/5)	
h)	Preparation of first report on the State of World's Animal Genetic Resources (decision VI/17)	
i)	Support to work of existing regional coordination mechanisms and development of regional and sub regional networks or processes (decision VI/27)	
j)	Development of partnerships and other means to provide the necessary support for the implementation of the programme of work on dry and subhumid lands biological diversity (decision VII/2)	
k)	Financial support for the operations of the Coordination Mechanism of the Global Taxonomy Initiative (decision VII/9)	
l)	Support to the implementation of the Action Plan on Capacity Building as contained in the annex to decision VII/19 (decision VII/19)	
m)	Support to the implementation of the programme of work on mountain biological diversity (decision VII/27)	
n)	Support to the implementation of the programme of work on protected areas (decision VII/28)	
0)	Support to the development of national indicators (decision VII/30)	
p)	Others (please specify)	

Further information on financial support provided to developing countries and countries with economies in transition.

# The next question (146) is for DEVELOPING COUNTRIES OR COUNTRIES WITH ECONOMIES IN TRANSITION

**146.** Please indicate with an "X" in the table below in which areas your country has applied for funds from the Global Environment Facility (GEF), from developed countries and/or from other sources. The same area may have more than one source of financial support. Please elaborate in the space below if necessary.

Areas		Applied for funds from			
Areas	GEF	Bilateral	Other		
a) Preparation of national biodiversity strategies or action plans	x				
b) National capacity self-assessment for implementation of Convention (decision VI/27)	х				
c) Priority actions to implement the Global Taxonomy Initiative (decision V/9)					
d) In-situ conservation (decision V/16)		x			
e) Development of national strategies or action plans to deal with alien species (decision VI/23)					
f) Ex-situ conservation, establishment and maintenance of Ex- situ conservation facilities (decision V/26)		x			
g) Projects that promote measures for implementing Article 13 (Education and Public Awareness) (decision VI/19)					
h) Preparation of national reports (decisions III/9, V/19 and VI/25)	x				
<ul> <li>i) Projects for conservation and sustainable use of inland water biological diversity (decision IV/4)</li> </ul>			x		
<ul> <li>j) Activities for conservation and sustainable use of agricultural biological diversity (decision V/5)</li> </ul>	х	x	x		
k) Implementation of the Cartagena Protocol on Biosafety (decision VI/26)	x				
I) Implementation of the Global Taxonomy Initiative	-				
m) Implementation of the Addis Ababa Principles and Guidelines for the Sustainable Use of Biodiversity	-				
n) Others (please specify)	-				
Further information on application for financial support.					

The Global Environmental Facility (GEF) small grants has been extended to a number of programmes on the relevance to biodiversity issues, while government through the Ministry of finance has been funding stakeholder projects through the annual budgetary process for whatever CBD related activities to be undertaken by respective institution within the government system.

### Box LXII.

Please elaborate below on the implementation of this article and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The implementation of this article depends on the goodwill of various international funding agencies such as GEF. Government funds projects for respective institutions within the Government system through the budgetary process for each CBD related activity to be undertaken by such institution provided it's in the annual plan. Only after the incorporation of the NBSAP into the National Development Planning process will the funding allocated to CBD implementation will then become clearer.

### D. THEMATIC AREAS

implementing the thematic programmes of work of the Convention (marine and coastal biodiversity, agricultural biodiversity, forest biodiversity, inland waters biodiversity, dry and sub-humid lands and mountain biodiversity).					
3 = High Challenge	1 = Low Challenge				
2 = Medium Challenge 0 = Challenge has been successfully overcome					
N/A = Not applicable					

	Programme of Work					
Challenges	Agricultu ral	Forest	Marine and coastal	Inland water ecosystem	Dry and subhumid lands	Mountain
a) Lack of political will and support	0	1		0	1	
b) Limited public participation and stakeholder involvement	1	1		0	1	
c) Lack of main-streaming and integration of biodiversity issues into other sectors	1	2		1	1	
d) Lack of precautionary and proactive measures	2	2		3	2	

e) Inadequate capacity to act, caused by institutional weakness	2	3	3	2	
f) Lack of transfer of technology and expertise	2	2	2	3	
g) Loss of traditional knowledge	3	3	3	3	
h) Lack of adequate scientific research capacities to support all the objectives	2	3	2	3	
i) Lack of accessible knowledge and information	2	3	2	3	
j) Lack of public education and awareness at all levels	1	1	1	1	
k) Existing scientific and traditional knowledge not fully utilized	2	2	2	2	
I) Loss of biodiversity and the corresponding goods and services it provides not properly understood and documented	2	2	2	2	
m) Lack of financial, human, technical resources	2	2	2	2	
n) Lack of economic incentive measures	2	3	2	3	
o) Lack of benefit-sharing	2	2	2	3	
p) Lack of synergies at national and international levels	3	3	3	3	
q) Lack of horizontal cooperation among stakeholders	2	2	2	2	
r) Lack of effective partnerships	3	3	3	3	
s) Lack of engagement of scientific community	2	2	2	2	
t) Lack of appropriate policies and laws	2	3	2	3	
u) Poverty	3	2	3	3	
v) Population pressure	2	2	2	1	
w) Unsustainable consumption and production patterns	2	2	1	2	
x) Lack of capacities for local communities	2	2	2	2	
y) Lack of knowledge and practice of ecosystem-based approaches to management	3	3	3	3	

z) Weak law enforcement capacity	3	3	3	3	
aa) Natural disasters and environmental change	3	2	2	2	
bb) Others (please specify)					

### Inland water ecosystems

**148.** Has your country incorporated the objectives and relevant activities of the programme of work into the following and implemented them? (decision VII/4)

St	rategies, policies, plans and activities	No	Yes, partially, integrated but not implemented	Yes, fully integrated and implemented	N/A
a)	Your biodiversity strategies and action plans	Х			
b)	Wetland policies and strategies	X			
c)	Integrated water resources management and water efficiency plans being developed in line with paragraph 25 of the Plan of Implementation of the World Summit on Sustainable Development		X		
d)	Enhanced coordination and cooperation between national actors responsible for inland water ecosystems and biological diversity		Х		

Further comments on incorporation of the objectives and activities of the programme of work

Some activities and objectives in the NBSAP are in line with the programme of work e.g. Objective 3 Sustainable Use of wetlands ecosystems and Objective 5.6 Effective management invasive species. National Water Master Plan is being revised elements of water efficiency will be incorporated.

149. Has your country identified priorities for each activity in the programme of work, including timescales, in relation to outcome oriented targets? (decision VII/4)					
a) No	Х				
b) Outcome oriented targets developed but priority activities not developed					
c) Priority activities developed but not outcome oriented targets					
d) Yes, comprehensive outcome oriented targets and priority activities developed					
Further comments on the adaption of outcome oriented targets and priorities for	r activities including				

Further comments on the adoption of outcome oriented targets and priorities for activities, including providing a list of targets (if developed).

The NBSAP has just been developed and so integration is still on-going. The development of the NBSAP has been a priority to assist Botswana to develop a biodiversity framework which in turn has helped to set priorities in biodiversity conservation. With this framework in place it will be possible to

150. Is your country promoting synergies between this programme of work and related activities under the Ramsar Convention as well as the implementation of the Joint Work Plan (CBD-Ramsar) at the national level? (decision VII/4)

a)	Not applicable (not Party to Ramsar Convention)	
b)	No	X
c)	No, but potential measures were identified for synergy and joint implementation	
d)	Yes, some measures taken for joint implementation (please specify below)	
e)	Yes, comprehensive measures taken for joint implementation (please specify below)	

Further comments on the promotion of synergies between the programme of work and related activities under the Ramsar Convention as well as the implementation of the Joint Work Plan (CBD-Ramsar) at the national level.

This has not been done yet but it will be relatively simple to achieve as the National Focal Point for the Ramsar Convention and the CBD Focal Point are the same. This will make promoting synergies easier.

151.	Has your country	taken steps to improve national data on	· (decision VII/4)
131.	rias your country	taken steps to improve national data on	. (UCCISION VII/+/

, ,					
	Issues	Yes	No	No, but development is under way	
a)	Goods and services provided by inland water ecosystems?			Х	
b)	The uses and related socioeconomic variables of such goods and services?			х	
c)	Basic hydrological aspects of water supply as they relate to maintaining ecosystem function?			х	
d)	Species and all taxonomic levels?			Х	
e)	On threats to which inland water ecosystems are subjected?			Х	

Further comments on the development of data sets, in particular a list of data sets developed in case you have replied "YES" above.

Okavango Delta Management Plan's goal is to integrate resource management of the delta.

152.	Has your country promoted the application of the guidelines on the rapid assessment
of t	the biological diversity of inland water ecosystems? (decision VII/4)

a) No, the guidelines have not been reviewed	X
b) No, the guidelines have been reviewed and found inappropriate	
c) Yes, the guidelines have been reviewed and application/promotion is	

pending	
d) Yes, the guidelines promoted and applied	
Further comments on the promotion and application of the guidelines on the rap biological diversity of inland water ecosystems.	id assessment of the

### Box LXIII.

Please elaborate below on the implementation of this programme of work and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Botswana has been developing the NBSAP which is to be used as a framework for biodiversity conservation and sustainable use and so has not had the capacity to undertake the programme of work. Now however, it is expected that the programme of work will be carried out.

# Marine and coastal biological diversity General

153.	Do your country's strategies and action plans include the following? Please use an " $\mathbf{X}$ " to indicate your response. (decisions II/10 and IV/15)							
a)	Developing new marine and coastal protected areas							
b)	Improving the management of existing marine and coastal protected areas							
c)	Building capacity within the country for management of marine and coastal resources, including through educational programmes and targeted research initiatives (if yes, please elaborate on types of initiatives in the box below)							
d)	Instituting improved integrated marine and coastal area management (including catchments management) in order to reduce sediment and nutrient loads into the marine environment							
e)	Protection of areas important for reproduction, such as spawning and nursery areas							
f)	Improving sewage and other waste treatment							
g)	Controlling excessive fishing and destructive fishing practices							
h)	Developing a comprehensive oceans policy (if yes, please indicate current stage of development in the box below)							
i)	Incorporation of local and traditional knowledge into management of marine and coastal resources (if yes, please elaborate on types of management arrangements in the box below)							
j)	Others (please specify below)							

k)	Not applicable						
	Please elaborate on the above activities and list any other priority actions relating to conservation and sustainable use of marine and coastal biodiversity.						
	Implementation of Integrated Marine and Coastal Area Ma	nagement					
15	4. Has your country established and/or strengthened institutional, legislative arrangements for the development of integrated managem coastal ecosystems?						
a)	No						
b)	Early stages of development						
c)	Advanced stages of development						
d)	Arrangements in place (please provide details below)						
e)	Not applicable						
Further manage	comments on the current status of implementation of integrated maringment.	ne and coastal area					
<u> </u>							
15	Has your country implemented ecosystem-based management of resources, for example through integration of coastal management management, or through integrated multidisciplinary coastal and ocean resources.	ent and watershed					
a)	No						
b)	Early stages of development						
c)	Advanced stages of development						
d)	Arrangements in place (please provide details below)						
e)	Not applicable						
	comments on the current status of application of the ecosystem to manastal resources.	nagement of marine					
	Marine and Coastal Living Resources						
15	6. Has your country identified components of your marine and which are critical for their functioning, as well as key threats to those eco						
a)	No						
b)	Plans for a comprehensive assessment of marine and coastal ecosystems are in place (please provide details below)						
c)	A comprehensive assessment is currently in progress						
d)	Critical ecosystem components have been identified, and management plans for them are being developed (please provide details below)						

e) Management plans for important components of marine and coastal ecosystems are in place (please provide details below)	
f) Not applicable	
Further comments on the current status of assessment, monitoring and research and coastal ecosystems, as well as key threats to them	h relating to marine

**157.** Is your country undertaking the following activities to implement the Convention's work plan on coral reefs? Please use an "X" to indicate your response.

	Activities	Not implemented nor a priority	Not implemented but a priority	Currently implemented	Not applicable
a)	Ecological assessment and monitoring of reefs				
b)	Socio-economic assessment and monitoring of communities and stakeholders				
c)	Management, particularly through application of integrated coastal management and marine and coastal protected areas in coral reef environments				
d)	Identification and implementation of additional and alternative measures for securing livelihoods of people who directly depend on coral reef services				
e)	Stakeholder partnerships, community participation programmes and public education campaigns				
f)	Provision of training and career opportunities for marine taxonomists and ecologists				
g)	Development of early warning systems of coral bleaching				
h)	Development of a rapid response capability to document coral bleaching and mortality				
i)	Restoration and rehabilitation of degraded coral reef habitats				
j)	Others (please specify below)				

Please elaborate on ongoing activities.	

### **Marine and Coastal Protected Areas**

15	8. Which of the following statements can best describe the current statements can be statement of the current statements can be statement of the current statement statement of the current statement statemen	
	coastal protected areas in your country? Flease use all 🔭 to indicate yo	our response.
a)	Marine and coastal protected areas have been declared and gazetted (please indicate below how many)	
b)	Management plans for these marine and coastal protected areas have been developed with involvement of all stakeholders	
c)	Effective management with enforcement and monitoring has been put in place	
d)	A national system or network of marine and coastal protected areas is under development	
e)	A national system or network of marine and coastal protected areas has been put in place	
f)	The national system of marine and coastal protected areas includes areas managed for purpose of sustainable use, which may allow extractive activities	
g)	The national system of marine and coastal protected areas includes areas which exclude extractive uses	
h)	The national system of marine and coastal protected areas is surrounded by sustainable management practices over the wider marine and coastal environment.	
i)	Other (please describe below)	
j)	Not applicable	
Further	comments on the current status of marine and coastal protected areas.	

### Mariculture

159	. Is your country applying the following techniques aimed at impacts of mariculture on marine and coastal biodiversity? Please chec	
a)	Application of environmental impact assessments for mariculture developments	
b)	Development and application of effective site selection methods in the framework of integrated marine and coastal area management	
c)	Development of effective methods for effluent and waste control	
d)	Development of appropriate genetic resource management plans at the hatchery level	
e)	Development of controlled hatchery and genetically sound reproduction methods in order to avoid seed collection from nature.	

	·	
f)	If seed collection from nature cannot be avoided, development of environmentally sound practices for spat collecting operations, including use of selective fishing gear to avoid by-catch	
g)	Use of native species and subspecies in mariculture	
h)	Implementation of effective measures to prevent the inadvertent release of mariculture species and fertile polypoids.	
i)	Use of proper methods of breeding and proper places of releasing in order to protect genetic diversity	
j)	Minimizing the use of antibiotics through better husbandry techniques	
k)	Use of selective methods in commercial fishing to avoid or minimize by-catch	
l)	Considering traditional knowledge, where applicable, as a source to develop sustainable mariculture techniques	
m)	Not applicable	
	comments on techniques that aim at minimizing adverse impacts of natal biodiversity.	nariculture on marine

	Allen Species and Genotypes	
16	O. Has your country put in place mechanisms to control pathways alien species in the marine and coastal environment? Please check elaborate on types of measures in the space below.	
a)	No	
b)	Mechanisms to control potential invasions from ballast water have been put in place (please provide details below)	
c)	Mechanisms to control potential invasions from hull fouling have been put in place (please provide details below)	
d)	Mechanisms to control potential invasions from aquaculture have been put in place (please provide details below)	
e)	Mechanisms to control potential invasions from accidental releases, such as aquarium releases, have been put in place (please provide details below)	
f)	Not applicable	
	comments on the current status of activities relating to prevention of ir in the marine and coastal environment, as well as any eradication activities	

### Box LXIV.

Please	elaborate	below	on	the	implementation	of	this	programme	of	work	and	associated	decisions
specific	ally focusi	ina on:											

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

Agricultural biological diversity					
161. Plas your country developed national strategies, programment of the development and successful implementation of policies and the conservation and sustainable use of agrobiodiversity components? IV/6)	actions that lead to				
a) No					
b) No, but strategies, programmes and plans are under development	Х				
<ul> <li>c) Yes, some strategies, programmes and plans are in place (please provide details below)</li> </ul>					
<ul> <li>d) Yes, comprehensive strategies, programmes and plans are in place (please provide details below)</li> </ul>					
Further comments on agrobiodiversity components in national strategies, programmes and plans.					
The NBSAP Objective 2.6 and ObjectIve 3.8 deal with the conservation and sustainable use of agrobiodiversity. This is good because previously there has been no coordinated approach to agrobiodiversity.					

use, including food security, of agricultural biological diversity? (decision V/5)  a) No X								
b)	No, but potential measures are under review							
c)	Yes, some measures identified (please provide details below)							
d)	Yes, comprehensive measures identified (please provide details below)							
Further information on ways and means to address the potential impacts of genetic use restriction technologies on the <i>In-situ</i> and <i>Ex-situ</i> conservation and sustainable use of agricultural biodiversity.								

Affilex to decision v75 - Programme of work of agricultural blockersity								
Programme element 1 – Assessment								
163. Has your country undertaken specific assessments of components of agricultural biodiversity such as on plant genetic resources, animal genetic resources, pollinators, pest management and nutrient cycling?								
a) No								
b) Yes, assessments are in progress (please specify components below) X								
c) Yes, assessments completed (please specify components and results of assessments below)								
Further comments on specific assessments of components of agricultural biodive	rsity.							
Under the auspices of IPGRI some assessments of plant genetic resources we Farm Animal Genetic Resources were assessed as part of the State of the Vicential Genetic Resources. Currently the Millenium Seed Bank project is carrying assessments of wild plants that are endemic, endangered and threatened. Agriculture has a programme where they collect, assess and store the seeds of community seed bank project at the NGO Permaculture Trust of Botswana collection, distribution and use of traditional varieties of crops. They collected th 25, maize 6, pearl millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed control of the State of Part Millet 6, sweet reed 8, water melon 12, melon 11, mixed 6, mixe	Worlds Farm Animal out collections and The Department of wild crop relatives. A is encouraging the e following: sorghum							
<b>164.</b> Is your country undertaking assessments of the interactions is practices and the conservation and sustainable use of the comport referred to in Annex I of the Convention (e.g. ecosystems and be communities; genomes and genes of social, scientific or economic important communities.	nents of biodiversity abitats; species and							
a) No								
b) Yes, assessments are under way	Х							
c) Yes, some assessments completed (please provide details below)								
d) Yes, comprehensive assessments completed (please provide details below)								
Further comments on assessment of biodiversity components (e.g. ecosystems and communities; genomes and genes of social, scientific or economic important								
Assessments of wild relatives of crops have been undertaken by the Department of Agricultural Research while NGOs such as Veld Products Research and Development and Thusano Lefatsheng have undertaken assessments of some species of medicinal and economic value. Assessments of agricultural ecosystems have been done to some extent. Agricultural practices and ecosystem interactions have not been addressed.								
<b>165.</b> Has your country carried out an assessment of the knowledge, innovations and practices of farmers and indigenous and local communities in sustaining agricultural biodiversity and agro-ecosystem services for food production and food security?								
a) No								
b) Yes, assessment is under way X								
c) Yes, assessment completed (please specify where information can be retrieved below)								

Further comments on assessment of the knowledge, innovations and practices of farmers and

### indigenous and local communities.

Permaculture Trust Botswana, a small NGO has been working with farmers' groups for information exchange and seed collection. The NGO is encouraging the use of traditional varieties of crops. More work needs to be done in this area though. Innovations and practices will be the next level to be done by the NGO.

166. Has your country been monitoring an overall degradatic restoration/rehabilitation of agricultural biodiversity since 1993 when the into force?						
a) No	Х					
b) Yes, no change found (status quo)						
c) Yes, overall degradation found (please provide details below)						
d) Yes, overall restoration or rehabilitation deserved (please provide details below)						
Further comments on observations.						
Until recently with the NBSAP overall biodiversity management has been uncoordinated but this is expected to change with the NBSAP implementation.						

Programme element 2 - Adaptive management							
167. Has your country identified management practices, technologies and policies that promote the positive, and mitigate the negative, impacts of agriculture on biodiversity, and enhance productivity and the capacity to sustain livelihoods?							
a) No	X						
b) No, but potential practices, technologies and policies being identified							
<ul> <li>Yes, some practices, technologies and policies identified (please provide details below)</li> </ul>							
<ul> <li>d) Yes, comprehensive practices, technologies and policies identified (please provide details below)</li> </ul>							
Further comments on identified management practices, technologies and policies.							
Objective 2.6.5 of the NBSAP identifies this as an important aspect to be attended to.							

# Programme element 3 - Capacity-building 168. Has your country increased the capacities of farmers, indigenous and local communities, and their organizations and other stakeholders, to manage sustainable agricultural biodiversity and to develop strategies and methodologies for In-situ conservation, sustainable use and management of agricultural biological diversity? a) No b) Yes (please specify area/component and target groups with increased capacity)

Further comments on increased capacities of farmers, indigenous and local communities, and their organizations and other stakeholders.

The Small Stock Breeders Association is attempting to conserve the traditional breeds of goats and sheep in Botswana. Also, Permaculture Trust Botswana is involved in a small scale project that aims at involving the farmer in farm scale conservation of agrobiodiversity. Enormous interest was

generated by this project with different varieties of crops being grown and exchanged.

169. Has your country put in place operational mechanisms for participation by a widerange of stakeholder groups to develop genuine partnerships contributing to the implementation of the programme of work on agricultural biodiversity?					
a)	No				
b)	No, but potential mechanisms being identified	Х			
c)	No, but mechanisms are under development				
d)	Yes, mechanisms are in place				

170. Has your country improved the policy environment, including benefit-sharing arrangements and incentive measures, to support local-level management of agricultural biodiversity?						
a)	No					
b)	No, but some measures and arrangements being identified	X				
c)	No, but measures and arrangements are under development					
d)	Yes, measures and arrangements are being implemented (please specify below)					

Further comments on the measures taken to improve the policy environment.

National Master Plan For Arable Agriculture and Dairy Development is a plan intended to streamline arable agriculture and dairy development programmes to address these policy objectives: improvement in food security at both household and national level; diversification of the agricultural production base; increased agricultural output and productivity; increase employment opportunities for fast growing labour force; provision of a secure and productive environment for agricultural producers and conservation of scarce agricultural and land resources for future generations. This plan targets both traditional and commercial farmers.

# Programme element 4 – Mainstreaming 171. Is your country mainstreaming or integrating national plans or strategies for the conservation and sustainable use of agricultural biodiversity in sectoral and cross-sectoral plans and programmes? a) No b) No, but review is under way c) No, but potential frameworks and mechanisms are being identified X d) Yes, some national plans or strategies mainstreamed and integrated into some sectoral plans and programmes (please provide details below) e) Yes, some national plans or strategies mainstreamed into major sectoral plans and programmes (please provide details below)

Further comments on mainstreaming and integrating national plans or strategies for the conservation and sustainable use of agricultural biodiversity in sectoral and cross-sectoral plans and programmes.

The NBSAP in several objectives identifies this as important e.g. Objective 2.6 Conservation of Agricultural Biodiversity and Objective 3.8 Sustainable use of agrobiodiversity.

172. Is your country supporting the institutional framework and mechanisms for the mainstreaming of agricultural biodiversity in agricultural plans, and its integration into wider strategies and action plans for	Itural strategies and
a) No	Х
b) Yes, by supporting institutions in undertaking relevant assessments	
c) Yes, by developing policy and planning guidelines	
d) Yes, by developing training material	
e) Yes, by supporting capacity-building at policy, technical and local levels	
f) Yes, by promoting synergy in the implementation of agreed plans of action and between ongoing assessment and intergovernmental processes.	
Further comments on support for institutional framework and policy and planning	mechanisms.

I	173.	In the case of centers of origin in your country, is your country promoting activities
I	for the	e conservation, on farm, In-situ, and Ex-situ, of the variability of genetic resources for
I	food a	nd agriculture, including their wild relatives?

a) No
b) Yes (please provide details below) X

Further comments on of the conservation of the variability of genetic resources for food and agriculture in their center of origin.

Botswana is a centre of diversity for the *Vigna* species and a secondary centre of diversity for the *Citrillus* species and work is being done to preserve these species ex-situ. The institutions involved are Agricultural Research; Botanical gardens and Millenium seedbank Project.

### Box LXV.

Please provide information concerning the actions taken by your country to implement the Plan of Action for the International Initiative for the Conservation and Sustainable Use of Pollinators.

No action

### Box LXVI.

Please elaborate below on the implementation of this programme of work and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

a)There has been great enthusiasm for the Permaculture's project; more information has been generated by the different projects undertaken to assess different components of agricultural biodiversity.

b)Cooperation amongst stakeholders has been encouraged in most of the projects and programmes

undertaken. With the NBSAP in place and contributing to most of the thematic areas the contribution to the Strategic Plan will soon be increasing.

- c)Because the NBSAP was completed after most of the contemporary issues in the CBD were agreed, it takes into account the 2010 Target and hence most of the targets will be undertaken within the framework of the NBSAP.
- d) The NBSAP has just been completed and so implementation will soon begin.
- e) Lack of information and capacity are constraints. Also uncoordinated approach to biodiversity conservation and sustainable use and the low priority that other sectors place on environmental and biodiversity issues.

### **Forest Biological Diversity**

### General

174. Has your country incorporated relevant parts of the work particular national biodiversity strategies and action plans and national forest programmes.	
a) No	Х
b) Yes, please describe the process used	
c) Yes, please describe constraints/obstacles encountered in the process	
d) Yes, please describe lessons learned	
e) Yes, please describe targets for priority actions in the programme of work	

Further comments on the incorporation of relevant parts of the work programme into your NBSAP and forest programmes

Some objectives in the NBSAP are relevant to the programme and address some of the issues in the programe of work e.g. Objective 2.2 a comprehensive protected area network and Objective 3.4 Sustainable use of fuelwood and forest resources.

### Box LXVII.

Please indicate what recently applied tools (policy, planning, management, assessment and measurement) and measures, if any, your country is using to implement and assess the programme of work. Please indicate what tools and measures would assist the implementation.

The programme of work has not been implemented yet so there has been no assessment.

### Box LXVIII.

Please indicate to what extent and how your country has involved indigenous and local communities, and respected their rights and interests, in implementing the programme of work.

The programme of work has not been implemented yet so little has been done on this.

### Box LXIX.

Please indicate what efforts your country has made towards capacity building in human and capital resources for the implementation of the programme of work.

Little has been done as the programme of work has not been implemented.

### Box LXX.

Please indicate how your country has collaborated and cooperated (e.g., south-south, north-south, south-north, north-north) with other governments, regional or international organizations in implementing the programme of work. Please also indicate what are the constraints and/or needs identified.

No collaboration.

### Expanded programme of work on forest biological diversity

Programme element 1 – Conservation, sustainable use and benefit-sharing							
175. Is your country applying the ecosystem approach to the management of all types of forests?							
a) No (please provide reasons below)	Х						
b) No, but potential measures being identified (please provide details below)							
c) Yes (please provide details below)							

Comments on application of the ecosystem approach to management of forests (including effectiveness of actions taken, lessons learned, impact on forest management, constraints, needs, tools, and targets).

There is no ecosystem map, the vegetation map which could be used is outdated. Until the map is produced it will not be possible to apply the ecosystem approach.

**176.** Has your country undertaken measures to reduce the threats to, and mitigate its impacts on forest biodiversity?

Options	X	Details
a) Yes	x	Please specify below the major threats identified in relation to each objective of goal 2 and the measures undertaken to address priority actions
b) No		Please provide reasons below
		Focus has been on implementation of the NBSAP.

Further comments on measures to reduce threats to, and mitigate the impacts of threatening processes on forest biodiversity (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

Fire breaks have been constructed, there is a forestry vegetation inventory, management plans and monitoring has been carried out.

177.	Is your country	undertaking	any	measures	to	protect,	recover	and	restore	forest	biological
	diversity?										

Options	X	Details
a) Yes		Please identify priority actions in relation to each objective of goal 3 and describe measures undertaken to address these priorities
	X	Maintainance of fire breaks, public education
b) No		Please provide reasons below

Further comments on measures to protect, recover and restore forest biological diversity (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

Undertaking afforestation activities.

## **178.** Is your country undertaking any measures to promote the sustainable use of forest biological diversity?

Options	X	Details	
a) Yes	x	Please specify priority actions in relation to each objective of goal 4 and describe measures undertaken to address these priorities	
		Public education and legislative instruments to curb the harvesting of fuel wood	
b) No		Please provide reasons below	

Further comments on the promotion of the sustainable use of forest biological diversity (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

Non consumptive uses e.g. ecotourism are encouraged to promote sustainable use.

# **179.** Is your country undertaking any measures to promote access and benefit-sharing of forest genetic resources?

Options	X	Details	
a) Yes		Please specify priority actions in relation to each objective of goal 5 and describe measures undertaken	
	X	Tree seeds are exchanged between Southern African Development Community (SADC) countries. Some genetic materials are exported in a way that there is exchange of information.	

b) No	Please provide reasons below

Further comments on the promotion of access and benefit-sharing of forest genetic resources. (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets)

### Programme element 2 - Institutional and socio-economic enabling environment

**180.** Is your country undertaking any measures to enhance the institutional enabling environment for the conservation and sustainable use of forest biological diversity, including access and benefit-sharing?

Options	X	Details	
a) Yes		Please identify priority actions in relation to each objective of Goal 1 and describe measures undertaken to address these priorities	
	X	Review of policies to address sustainable use, training programmes on forestry management. Community Based Natural Resources Management draft policy addresses issues on sustainable use.	
b) No		Please provide reasons below	

Further comments on the enhancement of the institutional enabling environment for the conservation and sustainable use of forest biological diversity, including access and benefit-sharing (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

**181.** Is your country undertaking any measures to address socio-economic failures and distortions that lead to decisions that result in loss of forest biological diversity?

Options	X	Details	
a) Yes	Please identify priority actions in relation to each objective of Goal 2 and describe measures undertaken to address these priorities		
	X	Imposing a moratorium on the harvesting of forest biological resources in 1991.  Community Development Trusts used to monitor use of given vegetative resources.	
b) No		Please provide reasons below	

Further comments on review of socio-economic failures and distortions that lead to decisions that result in loss of forest biological diversity (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

**182.** Is your country undertaking any measures to increase public education, participation and awareness in relation to forest biological diversity?

Options	X	Details	
a) Yes		Please identify priority actions in relation to each objective of goal 3 and describe measures undertaken to address these priorities	
	X	Public education is done on environment though it does not address forest biodiversity in particular.	
b) No		Please provide reasons below	

Further comments on measures to increase public education, participation and awareness in relation to forest biological diversity (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

### Programme element 3 - Knowledge, assessment and monitoring

**183.** Is your country undertaking any measures to characterize forest ecosystems at various scales in order to improve the assessment of the status and trends of forest biological diversity?

Options	X	Details
a) Yes		Please identify priority actions in relation to each objective of Goal 1 and describe measures undertaken to address these priorities
	X	Inventories can be classified into ecosystems and monitoring programmes are in place.
b) No		Please provide reasons below

Further comments on characterization of forest ecosystems at various scales (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

**184.** Is your country undertaking any measures to improve knowledge on, and methods for, the assessment of the status and trends of forest biological diversity?

Options	X	Details	
a) Yes		Please identify priority actions in relation to each objective of goal 2 and describe measures undertaken to address these priorities	
	X	In state land resource stock and flows are monitored but it is difficult to monitor outside state land.	
b) No		Please provide reasons below	

Further comments on improvement of knowledge on and methods for the assessment of the status and trends (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

**185**. Is your country undertaking any measures to improve the understanding of the role of forest biodiversity and ecosystem functioning?

Options	X	Details
a) Yes	X	Please identify priority actions in relation to each objective of goal 3 and describe measures undertaken to address these priorities
		By providing publicity measures and out reach programmes.
b) No		Please provide reasons below

Further comments on the improvement of the understanding of the role of forest biodiversity and ecosystem functioning (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

**186.** Is your country undertaking any measures at national level to improve the infrastructure for data and information management for accurate assessment and monitoring of global forest biodiversity?

Options	X	Details
a) Yes		Please identify priority actions in relation to each objective of goal 4 and describe measures undertaken to address these priorities
b) No		Please provide reasons below
	X	National Forestry Inventory Plan is being developed.

Further comments on the improvement of the infrastructure for data and information management (including effectiveness of actions taken, lessons learned, impacts on forest biodiversity, constraints, needs, tools and targets).

### Box LXXI.

Please elaborate below on the implementation of this programme of work and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

NBSAP has just been completed it is not yet implemented.

### Biological diversity of dry and sub-humid lands

Biological diversity of dry and sub-number lands				
<b>187.</b> Is your country supporting scientifically, technically and financially, at the national and regional levels, the activities identified in the programme of work? (decisions V/23 and VII/2)				
a) No	X			
b) Yes (please provide details below)				
Further comments on scientific, technical and financial support, at the national and regional levels, to the activities identified in the programme of work.				
188. Has your country integrated actions under the programme of work of dry and sub-humid lands into its national biodiversity strategies and action plans or the National Action Programme (NAP) of the UNCCD? (decisions V/23, VI/4 and VII/2)				
a) No				

b) Yes (please provide details below)	X	
Further comments on actions under the programme of work of dry and sub-hu into national biodiversity strategies and action plans or the National Action Prog UNCCD.		
Several targets have been included in the NBSAP such as Objective 3.5 biodiversity maintained through sustainable use of rangelands.	Rangeland/ dryland	
189. Has your country undertaken measures to ensure synergistic/collaborative the programme of work between the national UNCCD process and other programmental conventions? (decisions V/23, VI/4 and VII/2)		
a) No		
b) Yes, some linkages established (please provide details below)	X	
c) Yes, extensive linkages established (please provide details below)		
Further comments on the measures to ensure the synergistic/collaborative implementation of the programme of work between the national UNCCD processes and other processes under related environmental conventions.		
The National Action Plan (NAP) of the UNCCD was used in developing in the NBSA of efforts has been minimised. Many synergies were identified in the process includes many elements from the National Climate Change Communication for the	ss. The NBSAP also	
Programme Part A: Assessment		
<b>190.</b> Has your country assessed and analyzed information on the state of dryland biological diversity and the pressures on it, disseminated existing knowledge and best practices, and filled knowledge gaps in order to determine adequate activities? (Decision V/23, Part A: Assessment, Operational objective, activities 1 to 6)		
a) No	Х	
b) No, but assessment is ongoing		
c) Yes, some assessments undertaken (please provide details below)		
d) Yes, comprehensive assessment undertaken (please provide details below)		
Further comments on the relevant information on assessments of the status and trends and dissemination of existing knowledge and best practices.		
Assessments specific to this programme have not been carried out.		
Programme Part B: Targeted Actions		
<b>191.</b> Has your country taken measures to promote the conservation and sustainable use of the biological diversity of dry and sub-humid lands and the fair and equitable sharing of the benefits arising out of the utilization of its genetic resources, and to combat the loss of biological diversity in dry and sub-humid lands and its socio-economic consequences? (part B of annex I of decision V/23, activities 7 to 9)		
a) No		
b) Yes, some measures taken (please provide details below)	Х	

c) Yes, many measures taken (please provide details below)

Further comments on the measures taken to promote the conservation and sustainable use of the biological diversity of dry and sub-humid lands and the fair and equitable sharing of the benefits arising out of the utilization of its genetic resources, and to combat the loss of biological diversity in dry and sub-humid lands and its socio-economic consequences.

The NBSAP has identified some measure that need to be undertaken for example Objective 3.5 Rangeland/ dryland biodiversity maintained, Objective 3.3 Increased levels of community participation and use of indigenous knowledge systems in land use and sustainable management practices, Objective 2.7 Rehabilitation and restoration of degraded ecosystems and habitats.

<b>192.</b> Has your country taken measures to strengthen national capacities, including local capacities, to enhance the implementation of the programme of work?		
a) No		
b) Yes, some measures taken (please provide details below)	X	
c) Yes, comprehensive measures taken (please provide details below)		
d) Yes, all identified capacity needs met (please provide details below)		
Further comments on measures taken to strengthen national capacities, including local capacities, to enhance the implementation of the programme of work.		
National Tree Planting Day, extension services, community tourism and ecological monitoring.		

### Box LXXII.

Please elaborate below on the implementation of this programme of work and associated decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

The programme of work has not been implemented and so it is difficult to measure how it will affect the above. The priority has been the development of the NBSAP as a framework for biodiversity conservation and sustainable use. With the NBSAP in place, the focus will now turn to implementing the Programmes of work.

### **Mountain Biodiversity**

Programme Element 1. Direct actions for conservation, sustainable use ad benefit sharing		
193. Has your country taken any measures to prevent and mitigate the negative impacts of key threats to mountain biodiversity?		
a) No		
b) No, but relevant measures are being considered		
c) Yes, some measures taken (please provide details below)		
d) Yes, many measures taken (please provide details below)		
Further comments on the measures taken to prevent and mitigate the negative impacts of key threats to mountain biodiversity		

195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems?  a) No b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below)  Further comments on the measures to promote the sustainable use of mountain biological rand to maintain genetic diversity in mountain ecosystems	
b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below)  Further comments on the measures taken to protect, recover and restore mountain biodiver  195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems? a) No b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below) Further comments on the measures to promote the sustainable use of mountain biological read to maintain genetic diversity in mountain ecosystems  196. Has your country taken any measures for sharing the benefits arising from the utili mountain genetic resources, including preservation and maintenance of traditional known a) No b) No, but some measures are being considered	odiversity?
c) Yes, some measures taken (please provide details below)  d) Yes, many measures taken (please provide details below)  Further comments on the measures taken to protect, recover and restore mountain biodiver  195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems?  a) No  b) No, but some measures are being considered  c) Yes, some measures taken (please provide details below)  d) Yes, many measures taken (please provide details below)  Further comments on the measures to promote the sustainable use of mountain biological mand to maintain genetic diversity in mountain ecosystems  196. Has your country taken any measures for sharing the benefits arising from the utilimountain genetic resources, including preservation and maintenance of traditional known  a) No  b) No, but some measures are being considered	
d) Yes, many measures taken (please provide details below)  Further comments on the measures taken to protect, recover and restore mountain biodiver 195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems?  a) No b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below)  Further comments on the measures to promote the sustainable use of mountain biological rand to maintain genetic diversity in mountain ecosystems  196. Has your country taken any measures for sharing the benefits arising from the utili mountain genetic resources, including preservation and maintenance of traditional known a) No b) No, but some measures are being considered	
Further comments on the measures taken to protect, recover and restore mountain biodiver  195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems?  a) No b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below)  Further comments on the measures to promote the sustainable use of mountain biological rand to maintain genetic diversity in mountain ecosystems  196. Has your country taken any measures for sharing the benefits arising from the utili mountain genetic resources, including preservation and maintenance of traditional known a) No b) No, but some measures are being considered	
195. Has your country taken any measures to promote the sustainable use of mountain resources and to maintain genetic diversity in mountain ecosystems?  a) No b) No, but some measures are being considered c) Yes, some measures taken (please provide details below) d) Yes, many measures taken (please provide details below)  Further comments on the measures to promote the sustainable use of mountain biological and to maintain genetic diversity in mountain ecosystems  196. Has your country taken any measures for sharing the benefits arising from the utilimountain genetic resources, including preservation and maintenance of traditional known a) No b) No, but some measures are being considered	
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mountain genetic resources, including preservation and maintenance of traditional know  a) No  b) No, but some measures are being considered	
b) No, but some measures are being considered	
c) Yes, some measures taken (please provide details below)	
d) Yes, many measures taken (please provide details below)	
Further comments on the measures for sharing the benefits arising from the utilization of genetic resources	of mountain

Programme Element 2. Means of implementation for conservation, sustainable use and benefit sharing		
197. Has your country developed any legal, policy and institutional framework for conservation and sustainable use of mountain biodiversity and for implementing this programme of work?		
a) No		
b) No, but relevant frameworks are being developed		
c) Yes, some frameworks are in place (please provide	details below)	
d) Yes, comprehensive frameworks are in place (plea below)	se provide details	
Further comments on the legal, policy and institutional frame use of mountain biodiversity and for implementing the progra		
198. Has your country been involved in regional and/or train mountain ecosystems for conservation and sustainable us		
a) No		
b) No, but some cooperation frameworks are being co	nsidered	
c) Yes (please provide details below)		
Further information on the regional and/or transboundary cooperative agreements on mountain ecosystems for conservation and sustainable use of mountain biodiversity		
Programme Element 3. Supporting actions for conservation, sustainable use and benefit sharing		
<b>199.</b> Has your country taken any measures for identification, monitoring and assessment of mountain biological diversity?		
a) No		
b) No, but relevant programmes are under developme	nt	
c) Yes, some measures are in place (please provide de	etails below)	
d) Yes, comprehensive measures are in place (pleas below)	e provide details	
Further comments on the measures for identification, monitoring and assessment of mountain biodiversity		

	your country taken any measures for improving research, technical and scientific ation and capacity building for conservation and sustainable use of mountain biodiversity?
a)	No
b)	No, but relevant programmes are under development
c)	Yes, some measures are in place (please provide details below)
d)	Yes, comprehensive measures are in place (please provide details below)
	nments on the measures for improving research, technical and scientific cooperation and ilding for conservation and sustainable use of mountain biodiversity
	your country taken any measures to develop, promote, validate and transfer appropriate logies for the conservation of mountain ecosystems?
a) N	lo
b) N	lo, but relevant programmes are under development
c) Y	es, some measures are in place (please provide details below)
	es, comprehensive measures are in place (please provide details elow)
	mments on the measures to develop, promote, validate and transfer appropriate s for the conservation of mountain ecosystems
Box LXXIII .	
Please elabo specifically fo	rate below on the implementation of this programme of work and associated decisions ocusing on:
a) out	comes and impacts of actions taken;
	tribution to the achievement of the goals of the Strategic Plan of the Convention;
•	stribution to progress towards the 2010 target;
	gress in implementing national biodiversity strategies and action plans;
	attribution to the achievement of the Millennium Development Goals;
f) con	straints encountered in implementation.

### **E. OPERATIONS OF THE CONVENTION**

**202**. Has your country actively participated in subregional and regional activities in order to prepare

for Convention meetings and enhance implementation of the Convention? (d	lecision V/20)	
a) No		
b) Yes (please provide details below)	х	
Further comments on the regional and subregional activities in which you involved.	r country has been	
Botswana has participated in both the Southern Africa Biodiversity Forum and Preparatory meetings	the African Regional	
203. Is your country strengthening regional and subregional cooperation, enhar promoting synergies with relevant regional and subregional processes? (deci		
a) No		
b) Yes (please provide details below)	Х	
Further comments on regional and subregional cooperation and processes.		
Botswana strongly supports efforts enhancing the integration and promoting synergies at regional and sub regional processes.		
The following question (204) is for DEVELOPED COUNTRIL	ES	
<b>204.</b> Is your country supporting the work of existing regional coordination mechanisms and the development of regional and subregional networks or processes? (decision VI/27 B)		
a) No		
b) No, but programmes are under development		
c) Yes, included in existing cooperation frameworks (please provide details below)		
d) Yes, some cooperative activities ongoing (please provide details below)		
Further comments on support for the work of existing regional coordination in development of regional and subregional networks or processes.	nechanisms and the	
205. Is your country working with other Parties to strengthen the existing region mechanisms and initiatives for capacity-building? (decision VI/27 B)	onal and subregional	
a) No		
b) Yes	x	
206. Has your country contributed to the assessment of the regional and subregional mechanisms for implementation of the Convention? (decision VI/27 B)		
a) No		
b) Yes (please provide details below)	x	
Further comments on contribution to the assessment of the regional and subregion	onal mechanisms.	
The Southern Africa Biodiversity Forum and SADC Protocol on Wildlife Conservation and Law		

Enforcement are some of the country's contribution to the assessment for the implementation of the convention.

### Box LXXIV.

Please elaborate below on the implementation of the above decisions specifically focusing on:

- a) outcomes and impacts of actions taken;
- b) contribution to the achievement of the goals of the Strategic Plan of the Convention;
- c) contribution to progress towards the 2010 target;
- d) progress in implementing national biodiversity strategies and action plans;
- e) contribution to the achievement of the Millennium Development Goals;
- f) constraints encountered in implementation.

There are a number of instruments that have been concluded and adopted with the region for the protection and conservation of biodiversity. Botswana is part to some of these instruments and generally supports the principles embodied in them.

### F. COMMENTS ON THE FORMAT

### Box LXXV.

Please provide below recommendations on how to improve this reporting format.

### On challenges and Obstacles to Implementation the following are referred to:

- 1. Use of the word lack restricts the answer, if inadequate can be used instead.
- 2. Phrasing of the question should not combine 2 issues, e.g inadequate capacity to act, caused by institutional weakness. Inadequate capacity is not always caused by institutional weakness (e)
- 3. Natural disasters should be separated from environmental change as they are not mutually exclusive (aa).

Generally from the way the questions are asked the answers do not give a concise picture or status of the implementation of the convention.

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