Action Plan for Implementing the Convention on Biological Diversity's Programme of Work on Protected Areas









Kingdom of Saudi Arabia

Submitted to the Secretariat of the Convention on Biological Diversity 25 June 2012

Protected Areas Information

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Multi-stakeholder committee: (Add description)

The implementation of the Convention on Biological Diversity (CBD) and its programmes is overseen by the National Biodiversity Committee – a multi-stakeholder committee represented by stakeholders / agencies including the Ministry of Agriculture, Ministry of Planning, Ministry of Education, King Saud University, businesses and two non-government organizations (Saudi Environmental Society and Friends of the Environment).

Description of protected area system

National Targets and Vision for Protected Areas

The Kingdom of Saudi Arabia has two policy documents: the National Biodiversity Strategy and Action Plan (NBSAP) and the Protected Area System Plan, which set national targets and a vision for Protected Areas in the Kingdom.

The National Protected Area System Plan is the guiding document for Saudi Arabia to fulfill its obligations with regard to *in situ* conservation under the Convention on Biological Diversity. The National Protected Area System Plan was first published in 1990 and later revised in 2010. The System Plan identifies sites for protection, provides a gap assessment, and includes a Policy Statement that serves as the vision for the national network of Protected Areas. The Policy states:

"maximize the potential of protected areas for the conservation of biological diversity and for bringing equitable and sustainable benefits to local communities."

In addition to this the National Biodiversity Strategy proposes 17 Strategic goals out of which the first two are directly relevant to the implementation of the PoWPA:

NBSAP Strategic Goal 1 (In-Situ Conservation - Inside Protected Areas)

"To protect terrestrial, marine and freshwater ecosystems by means of establishing a comprehensive system of protected areas for in-situ conservation of biodiversity in Saudi Arabia."

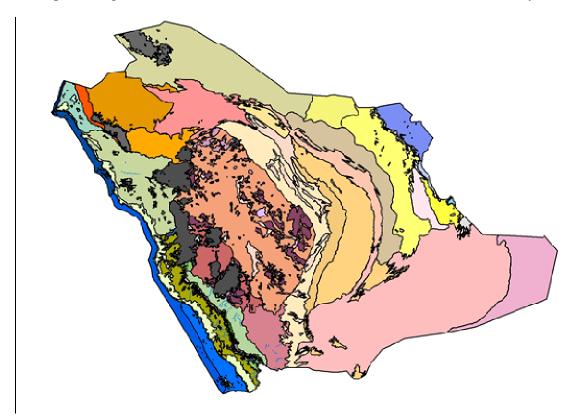
NBSAP Strategic Goal 2 (In-situ Conservation - Outside Protected Areas)

"To conserve and manage terrestrial, marine and freshwater biodiversity by securing the safety of wild populations of flora and fauna in their natural habitats outside the boundaries of recognized protected areas."

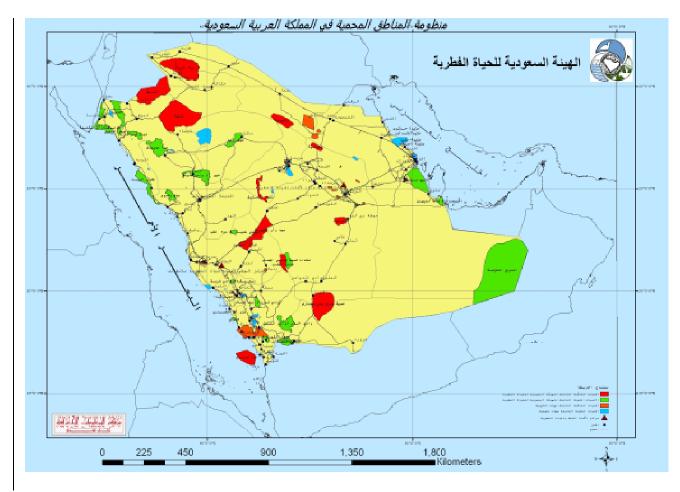
Furthermore, the National Strategy proposes a set of 23 actions for the realization of these two Strategic Goals.

Coverage

The existing Protected Area coverage including existing protected areas managed by the SWA and partner agencies is 4.90% and will increase to 10.42% under the revised System Plan.



Bioregions of the Kingdom of Saudi Arabia: 45 terrestrial and 7 marine; 52 bioregions in all (source: revised Protected Area System Plan). The revised Protected Area System Plan achieves 98% representation of these bioregions, although there is a wide variance in the coverage of individual bioregions.



Map of Saudi Arabia's Protected Area System. The 15 existing protected areas managed by the SWA are shown in red, and the 18 existing protected areas managed by partner agencies in orange. The 20 proposed protected areas to be managed by SWA and the two proposed extensions of existing protected areas are in green and the 22 proposed protected areas to be managed by partner agencies are shown in blue. (Source: revised Protected Area System Plan).

Description and background

The Kingdom of Saudi Arabia occupies three-fourths of the Arabian Peninsula and a considerable expanse of the coastal waters of both the Red Sea and the Arabian Gulf. The Saudi Wildlife Authority (SWA) is the main agency charged with the conservation and restoration of the Kingdom's biological diversity and manages 15 protected areas within the Kingdom. In addition, 18 protected areas are managed by partner agencies including Ministries, other national and local authorities, and local communities. A revised Protected Area System Plan prepared by the SWA shows that the existing protected area network represents 29 out of the 47 terrestrial and 7 marine bioregions in the Kingdom. The revised system plan aims to fill gaps in the network so as to increase the representation to 51 out of these 52 bioregions. This Action Plan draws elements from the National System Plan and the National Biodiversity Strategy in order to set a course for the implementation of the Programme of Work for Protected Areas (PoWPA) in Saudi Arabia.

Governance types

(Summary matrix of governance types)

Governance types	A Mana	. Gover aged Prot Areas			. Co-man otected A		C. Pri	vate Prot Areas	tected	Con	mmunity served reas
PA Categories	Federal or national ministry or agency in charge	Local / municipal ministry or agency in charge	Government-delegated management (e.g. to an NGO)	Transboundary management	Collaborative management (various forms of pluralist influence)	Joint management (pluralist management board)	Declared and run by individual land- owner	by non-profit organizations (e.g. NGO, universities, co-operatives)	by for profit organizations (e.g. individual or corporate land-owners)	Declared and run by indigenous peoples	Declared and run by local communities
Ia – Strict Nature Reserve	√										
Ib – Wilderness Area	V										
II – National Park	V										
III – Natural Monument	V	V									·
IV- Habitat / Species	V	\checkmark									$\sqrt{}$
management	,					,					,
V- Protected Landscape /	$\sqrt{}$	$\sqrt{}$				$\sqrt{}$					$\sqrt{}$
Seascape	,					,					,
VI-Managed Resource	$\sqrt{}$					$\sqrt{}$					$\sqrt{}$
Protected Area											

Key threats

The National Protected Area System Plan and the NBSAP identify the following threats:

- Illegal Hunting
- Overgrazing
- Urban expansion, road construction
- Agricultural expansion and use of insecticides
- Littering
- Invasive species and introduction of exotic
- Overfishing,
- Mining
- Destruction of mangroves and woodlands

Preliminary Threat Ranking

(based on the threats identified for Terrestrial Biodiversity in the NBSAP)

Threats	Severity
Degradation of rangelands	Very High
Uncontrolled cutting of trees and shrubs [Western & Central Regions)	High
Land conversion – urbanization, agricultural expansion in virgin areas	High
Periodic drought	Medium
Overhunting	Very High
Loss of water resources	High
Invasive alien species	Medium

Barriers to effective implementation

- Inter-agency coordination
- Participation of local communities
- Legislation and Enforcement

Status, priority and timeline for key actions of the Programme of Work on Protected Areas

Status of key actions of the Programme of Work on Protected Areas

Status of key actions of the Programme of Work on Protected Areas	Status
 Progress on assessing gaps in the protected area network (1.1) 	3
 Progress in assessing protected area integration (1.2) 	1
 Progress in establishing transboundary protected areas and regional 	0
networks (1.3)	
 Progress in developing site-level management plans (1.4) 	2
 Progress in assessing threats and opportunities for restoration (1.5) 	2
 Progress in assessing equitable sharing of benefits (2.1) 	1
 Progress in assessing protected area governance (2.1) 	
 Progress in assessing the participation of indigenous and local 	1
communities in key protected area decisions (2.2)	
 Progress in assessing the policy environment for establishing and 	1
managing protected areas (3.1)	
 Progress in assessing the values of protected areas (3.1) 	2
 Progress in assessing protected area capacity needs (3.2) 	4
 Progress in assessing the appropriate technology needs (3.3) 	0
 Progress in assessing protected area sustainable finance needs (3.4) 	0
 Progress in conducting public awareness campaigns (3.5) 	2
 Progress in developing best practices and minimum standards (4.1) 	1
Progress in assessing management effectiveness (4.2)	1
Progress in establishing an effective PA monitoring system (4.3)	2
Progress in developing a research program for protected areas (4.4)	2
Progress in assessing opportunities for marine protection	3
Progress in incorporating climate change aspects into protected areas	1

Status: 0 = no work, 1 = just started, 2 = partially complete, 3 = nearly complete, 4 = complete

Priority actions for fully implementing the Programme of Work on Protected Areas:

The following PoWPA actions directly correspond to the Saudi Arabian NBSAP and are priority actions for the Kingdom:

- 1.1.2 Protect large unfragmented blocks
- 1.1.4 Assess governance types
- 1.1.5 Assess ecological gaps
- 1.1.7 Encourage PAs that benefit indigenous communities
- 1.2.1 Evaluate lessons learned
- 1.2.2 Implement steps to improve policy integration
- 1.4.2 Identify measurable biodiversity conservation targets for sites
- 1.4.4 Develop or update management plans
- 1.4.6 Ensure adequate staffing
- 1.5.4 Control risk from alien invasive species
- 2.1.1 Assess economic costs & benefits of PA establishment & develop equitable benefits sharing
- 2.1.6 Strengthen genetic resource access policies
- 3.1.2 Assess PA contributions to national economies
- 3.1.4 Improve PA governance
- 3.2.1 Complete national PA capacity needs assessment
- 3.5.1 Establish education programs on PA importance
- 3.5.6 Evaluate impacts of education programs
- 4.1.2 Develop outcomes monitoring system for PoWPA
- 4.2.2 Assess PA management effectiveness in 30% of sites and across system
- 4.3.1 Implement status and trends monitoring
- 4.3.5 Encourage GIS and remote sensing
- 4.4.4 Encourage collaborative research

Timeline for completion of key actions

Action	2012	2013	2014	2015	2016	2017	2018	2019	2020
Action									
1) Gap Assessment		-							
2) Develop science-based Management Plans	•		-						
3) Strengthen Patrolling and Enforcement		•							
4) Encourage collaborative Research									
5) Species Rehabilitation and Habitat Restoration									
6) Community Participation									
7) Capacity Building									
8) Strengthen Policy & Legislative support	•								
9) Communication & Awareness Generation									

Action Plans for completing priority actions of the Programme of Work on Protected Areas

Action 1: (Conduct Gap Assessment)

Key steps	Timeline	Responsible parties	Indicative budget
Gap Assessment (1): Correct map of bioregions so that it is georeferenced and overlays perfectly on maps of existing and proposed protected areas, then complete comprehensive gap analysis of protected areas with respect to representation and hotspots	Up to 6 months	Conservation Department & Research, SWA GIS / Gap Analysis specialist	
Gap Assessment (2): Identify ecological corridors & buffer zones	Up to 6 months	Conservation Department & Research, SWA	
Train Protected Area Planning Dept. staff and PA managers to use GIS	2 -3 months	Conservation Department & Research, SWA	
Conduct Stakeholder consultation workshops at existing and proposed Protected Areas	2 -3 years	Conservation Department & Research, SWA	
Develop Bioregional Plans as a means of integrating PAs into the wider landscape	Depends on partner agencies	SWA, Ministry of Agriculture, Ministry of Municipal & Rural Affairs, Ministry of the Interior, & provincial government bodies	

Action 2: (Develop science-based Management Plans)

Identify data requirements for developing Management Plans Define a standard format for Management Plans Ensure congruence between Management Plans Ensure congruence between Management Plans Ensure congruence between Management Plans reflect and the values and policies described for individual protected areas in the Protected Area System Plan Update Species Action Plans and implement them in Protected Areas Form a research team to support PA managers in developing Management Plans Form a Local Management Committee for each PA represented by local stakeholders Train PA managers to use tools (e.g. software) to monitor implementation of Plans Conservation Department & Research, SWA Up to 3 years SWA with Local Authorities & Local community representatives Conservation Department & Research, SWA Conservation Department & Research, SWA Conservation Department & Research Conservation Department & Research Conservation Department with Training Center Conservation Department & Research, SWA Research, SWA Conservation Department with Training Center Conservation Department & Research, SWA Research, SWA Conservation Department & Research, SWA Research, SWA Conservation Department & Research, SWA Research, SWA Conservation Department & Research, SWA Conservation Department & Research, SWA Research, SWA Conservation Department & Research, SWA Research, SWA Conservation Department & Research, SWA	Key steps	Timeline	Responsible parties	Indicative budget
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Department & Finance	Develop Sustainable Finance Blaza for each BA	Concertion		
Finance	Develop Sustainable Finance Plans for each PA	6 months		
			· ·	
I Department I			Department	

Action 3: (Strengthen Patrolling and Enforcement)

Key steps	Timeline	Responsible parties	Indicative budget
Employ adequate number of staff for each PA	Up to 6 months	Conservation	
		Department &	
		Personnel	
		Department	
Ensure PA staff is adequately trained prior to	Up to 1 year	Training Center,	
assuming / resuming duties		SWA	
Ensure PA staff and all stakeholders are	1 year	Dept. of Public	
knowledgeable of relevant laws		Awareness	
Ensure PA is properly equipped	1 year	Conservation	
		Department	
Strengthen patrolling practices in Protected Areas	2 years	Conservation	
		Department	
Use technology for communication, patrolling	6 months	Conservation	
and reporting violation		Department	
Ranger training in use of GPS and mapping		Training Center,	
routes, animal & plant distribution		SWA	
Researchers in field to provide training to rangers		Research	
on censusing methods		Centers,	
		Training Center,	
		SWA	
Establish local management committees to	6 months	SWA,	
support PA staff in reporting violations		Local Authorities,	
		& Local	
		Communities	
Tighten collaboration between SWA personnel		SWA,	
and local police & border guard / coast guard		Local Police, &	
authorities		Border Guards /	
		Coast Guards	
Establish a network of hunters and interact with		SWA & Hunters'	
them on a regular basis		Associations	

Action 4: (Encourage Collaborative Research)

Key steps	Timeline	Responsible parties	Indicative budget
Develop an open-source central database on the	6 months	SWA with	buaget
national CHM	0 IIIOIILIIS	Partner	
Fatablish controling database systems with strong		agencies	
Establish centralized database system with strong		SWA, Research	
links to SWA research centers		Centers	
Library of the SWA and SWA research centers to		SWA, Research	
be linked online and to share publication online		Centers	
Establish National Research Program for PAs and	Up to 1 year	SWA with	
encourage inter-agency coordination to		Partner	
implement the Program		agencies	
Develop monitoring programs for key taxa inside	Ongoing	Research	
and outside PAs		Centers, SWA	
Undertake Ecosystem Valuation for PAs	6 -8 months	SWA Research	
		Staff with	
		collaborating	
		Universities	
Conduct Social Surveys to assess dependence of	6 -8 months	SWA Research	
Local Communities		Staff with	
		collaborating	
		Universities	
Develop long-term program to monitor impact of	Ongoing	SWA Research	
Climate Change and drought	2.182.118	Staff with	
		collaborating	
		Universities	
Document Genetic Resources within PAs	2 years	SWA with	
Bodament Genetic Resources Within 1715	2 years	KACST	
Document Traditional Knowledge	3 years	SWA with	
Document Traditional Knowledge	3 years	collaborating	
		Universities,	
		& IUCN	
Initiate regional cooperation with the CCC		specialists	
Initiate regional cooperation with the GCC		SWA with	
countries on conservation and reintroduction		relevant	
programs for the following species:		conservation	
a) Houbara bustard		agencies in	
b) Arabian oryx		GCC, Research	
c) Arabian Leopard		Centers	
d) Migratory birds			
e) Endemic species			
f) Sea turtles and dugongs			

Action 5: (Species Rehabilitation and Habitat Restoration)

Key steps	Timeline	Responsible	Indicative
		parties	budget
Proclaim proposed protected areas as indicated	5-7 years	SWA	
by Protected Area System Plan		Conservation	
		Dept, other	
		government	
		agencies, local	
		communities	
Further enhance and develop Species re-	6 months	SWA Research	
introduction protocols		Centers	
Further strategize the captive breeding programs		SWA Research	
for threatened species		Centers	
Implement National Strategies for the following		SWA	
species, translate into Arabic, and make available		SWA Research	
to researchers and PA managers:		Centers	
a) Houbara bustard			
b) Arabian Oryx			
c) Arabian Leopard			
d) Ostrich			
Complete the ongoing assessment of Important	2 years	SWA Research	
Plant Areas		& Conservation	
		Departments,	
		Royal Botanic	
		Garden,	
		Edinburgh,	
		IUCN Arabian	
		Plants Specialist	
		Group	
Conduct new assessment of Important Bird Areas	2 years	SWA Research	
		& Conservation	
		Departments,	
		SWA Research	
		Centers, Birdlife	
		International	

Implement database of plant and animal species		SWA Research	
with GIS mapping and make available to		& Conservation	
researchers and PA managers		Departments	
Make detailed maps of bioregions / habitats and		SWA Research	
species distribution maps readily available to PA		& Conservation	
managers		Departments	
Build capacity for genetic studies and develop	1 to 1.5 years	SWA Research	
strategy with respect to genetic mixing		Centers	
Develop and strengthen genetic laboratories in		SWA Research	
SWA Research Centers and/or collaborate with		Centers,	
other institutions		SWA, KACST,	
		genetic	
		research labs	
Identify critical sites in need for ecological	1 year	Conservation	
restoration		Dept &	
		Research	
		Centers	
Involve and build capacity of local people in the	1 to 1.5 years	Conservation	
propagation and re-planting of native trees &		Dept with Local	
plant communities in woodlands and mangroves		Authorities &	
		Community	
		Representatives	
Establish Local Management Committees to	2 years	Conservation	
oversee fuel wood and fodder collection		Dept with Local	
		Authorities &	
		Local	
		Community	
		Representatives	
Provide Local Management Committees with	1 -2 years	SWA with	
financial and technical support to implement		Ministry of	
Sustainable Grazing Regimes		Agriculture	
Develop Species Action Plans and deploy field	1 year –	Conservation	
teams with targets to significantly reduce the	ongoing	Dept &	
expanse of Invasive Species		Research	
		Centers	

Action 6: (Community Participation)

Key steps	Timeline	Responsible	Indicative
		parties	budget
Train PA staff in developing programs for	2 years	Training Center	
Community based Conservation (CBC)		& Conservation	
		Dept.	
Conduct social surveys for all PAs	1 to 1.5 years	Conservation	
		Dept with	
		Research	
		Centers	
Conduct socio-economic studies in and around all		Conservation	
protected areas to assess economic		Department &	
interdependence and identify possible incentive		Research, SWA,	
measures		& collaborating	
		Universities,	
Assess feasibility for diverse PA governance	6 -8 months	SWA Research	
including Community Reserves & Private		Centers	
Reserves			
Establish Local Committees	Up to 1 year		
Provide financial & technical support to Local	1 year -	SWA in	
Committees to implement Sustainable Grazing	ongoing	coordination	
Programs / Woodland Management etc in PA		with Local	
buffer zones		Authorities and	
		Community	
		Representatives	

Recognize Linkages between poverty and biodiversity

The poor do not, as a rule, destroy biodiversity since their needs are limited;

- The poor are used as agents of destruction by the rich;
- Economic development cannot be achieved without an impact on biodiversity if not locally then elsewhere;
- The relative impact of poverty is felt more by women.

Helping rural people set the priorities for development in their own communities, through effective bodies, by providing access to discretionary funds, by building local capacity to plan and implement local economic development;

- The provision of physical infrastructure and social services (eg., water and sanitation, transport, health services and schools);
- Wider access to productive resources in the rural areas, especially through:
- a) Land tenure reform, land redistribution and land restitution;
- b) Extension of water supplies, and the reform of water laws to protect the rights of water users;
- c) Rural financial services for investment in rural livelihoods;
- d) Periodic systems as the organizing and coordinating framework for rural activities (spatial and temporal) for investment in trade, service delivery, transport and information thus raising incomes for rural men and women by providing opportunities for increasing farm and non-farm production in poor areas; and
- Ensuring the safety and security of the rural population.

Action 7: (Capacity Building)

Key steps	Timeline	Responsible parties	Indicative budget
Translate NBSAP into Arabic & provide copies to	Up to 1 year	SWA	
SWA Departments, PA managers, Head Rangers,			
Research Centers & Training Center			
Translate revised Protected Area System Plan into	Up to 1 year	SWA	
Arabic & provide copies to SWA Departments, PA			
managers, Head Rangers, Research Centers &			
Training Center			
Train senior field personnel, e.g., PA Managers,		SWA	
Head & Deputy Head Rangers, & other selected			
rangers in implementation of NBSAP & PA Action			
Plans			
Conduct National Training Needs Assessment for	Ongoing	Training	
implementing Action Plans		Center, SWA	
Train government officers in partner agencies to	Up to 1 year	Training	
implement the NBSAP		Center, SWA	
Build Capacity of PA managers to implement	Up to 1 year	Training	
PoWPA		Center, SWA	
Develop the Training Center to meet National and	1 -2 years	SWA	
Regional training needs			

Local capacity building

Improving skills in identifying species and biological communities;

- Enabling a better understanding of ecosystems boundaries, functions and services;
- Increasing capability to appreciate the value of biodiversity;
- Providing clues to recognize changes in the local environment, using biodiversity as a tool;
- Monitoring biodiversity loss.

Action 8: (Strengthen Policy & Legislative support)

Key steps	Timeline	Responsible	Indicative
		parties	budget
Adopt National Policy for Protected Areas /	Up to 1 year	SWA	
Biodiversity			
Establish an Inter-agency coordination committee	Up to 1 year	SWA with	
to implement Policy		Partner	
		agencies	
Implement procedures for biodiversity inclusive	Up to 1 year	SWA & PME	
EIAs and SEAs near Protected Areas			
Develop Compliance Plan for the General	Up to 1 year	SWA, PME in	
Environment Act (2001)		collaboration	
		with relevant	
		government	
		agencies and	
		Department of	
		Justice	
Conduct consultations for negotiated rule-making	Up to 1 year	SWA	
involving major stakeholder groups and			
businesses			
Train Enforcement Officers	6 – 8 months	Training Center	
Ensure that Protected Area legislation &	6 months	SWA	
regulations are available in Arabic and English at			
all Protected Area head ranger stations			
Involve Businesses to implement standards	Up to 1 year	SWA with	
practices		partner	
		agencies	

Action 9: (Communication & Awareness Generation)

Key steps	Timeline	Responsible parties	Indicative budget
Train PA Managers, Head Rangers, Deputy Head	3 years	Training Center	
Rangers, & selected rangers in interpretation &		SWA	
environmental awareness to communicate with			
local communities and visitors to Protected Areas			
Train all PA Managers and rangers in	Initial training	Saudi	
environmental ethics and minimum impact	3 years, then	Commission for	

practices (Leave No Trace) to reduce their own	Ongoing	Tourism and
impacts and give guidance to visitors in Protected		Antiquities,
Areas		Training
		Center,
		SWA
Ensure that all tour guides and outfitters working	One year, then	Saudi
in protected areas are trained and certified in	Ongoing	Commission for
environmental ethics and minimum impact		Tourism and
practices (Leave No Trace)		Antiquities,
		Training
		Center,
		SWA
Researchers working in PAs to provide updated		Research
information to rangers and to local stakeholders		Centers
Use web-based tools to promote awareness	6 -8 months	Dept. of Public
		Awareness,
		SWA
Develop Visitor Centers at Protected Areas	Ongoing	SWA
Enhance awareness of the economic value of		SWA
Protected Areas to stakeholders and decision-		
makers		
Establish Awards for stakeholders and Businesses		SWA
for complying to the NBSAP		

STAKEHOLDER ENGAGEMENT AND STRATEGIC COMMUNICATION

- (a) Engage opinion leaders (e.g., tribal leaders & district authorities);
- (b) Use informal communication (e.g. informal face-to-face meetings);
- (c) Encourage the participation of all sectors of the society;
- (d) "Listen" rather than "educate";
- (e) Consider the needs and interests of other stakeholders, negotiate and develop common objectives (win-win situation to avoid conflicts);
- (f) Communicate formally with decision-makers and politicians (e.g. send official letters, hold workshops, etc.);
- (g) Build solid partnerships and networks;
- (h) Define clear goals before communicating with stakeholders;
- (i) Apply evaluation and monitoring at every stage of the process of developing a communication strategy;
- (j) Define technical terms and use simple wording;
- (k) Integrate the main messages into informal school education curricula;
- (I) Provide access to information and material.

Key assessment results

Ecological gap assessment

The revised Protected Area System Plan prepared by the Saudi Wildlife Authority (SWA) in 2011 identifies key gaps in the current PA network, and serves as a Gap Assessment. The System Plan highlights that only 29 bio-regions out of the 52 are currently represented in the PA network and proposes the protection of 44 additional sites. Although the System Plan proposes new Protected Areas, a detailed Gap Assessment will be undertaken again to monitor the effectiveness of the proposed Plan.

Management effectiveness assessment

Beginning from 2012, as a part of a program to raise the level of PA management in the Kingdom, the SWA will recruit highly experienced expatriate Protected Area mentor wardens to work closely with existing PA staff. A Management Effectiveness Assessment will be conducted as one of the activities within this program, which will determine its future course.

Sustainable finance assessment

The annual budgets for Protected Areas are determined by management authorities such as the SWA, Ministry of Agriculture, etc. and are allocated by the central Government. A sustainable finance assessment is yet to be undertaken.

Capacity needs assessment

The SWA Training Center is responsible for capacity building of PA staff and conducts an annual Training Needs Assessment prior to scheduling training programs. In 2012, the following training needs have been identified within SWA Protected Areas and consequently training programs are planned to fulfill these needs:

- Legislation: international and regional conventions
- Research: population census techniques for ungulates
- Awareness generation
- Rangeland and woodland management
- Geographic Information System (GIS)
- Coastal Zone Management
- Management of invasive flora and fauna

In addition to this, the Training Center regularly conducts a Ranger Training Program which trains new recruits on Protected Area management, Patrolling, Natural Resource Management, Safety, First Aid and Outdoor survival, navigation, mapping, tourism and awareness generation. Training in the minimization of their own and visitors' environmental impacts (Leave No Trace) is scheduled to be added to the Training Program in 2012.

Policy environment assessment

The revised System Plan proposes a draft Policy for Protected Areas in the Kingdom. Although an assessment of the policy environment has not been undertaken, the expatriate wardens that will be recruited in 2012 will also be involved in assessing policies relevant to Protected Areas.

Protected area integration and mainstreaming assessment

Although an assessment for PA integration and mainstreaming has not been done, integration and mainstreaming is happening at a greater level than in previous years. In the present scenario, mainstreaming takes place in an ad-hoc manner with some level of success amongst agencies such as the Ministry of Agriculture and the Riyadh Development Authority.

Protected area valuation assessment

The NBSAP identifies the economic value of wildlife and the need to conserve it. In addition, the socio-economic benefits of each existing and proposed Protected Area are identified in the revised System Plan. A PA valuation assessment has not been undertaken till date but may be done in the near future as a result of regional capacity building workshop organized by the CBD and TEEB early in 2012.

Climate change resilience and adaptation assessment

The impact of climate change on biodiversity is being monitored in Saudi Arabia and in 2011, the Saudi Biological Society organized a conference to discuss this issue. However, a formal assessment on resilience and adaptation is yet to be done for Protected Areas although it is considered a priority issue.