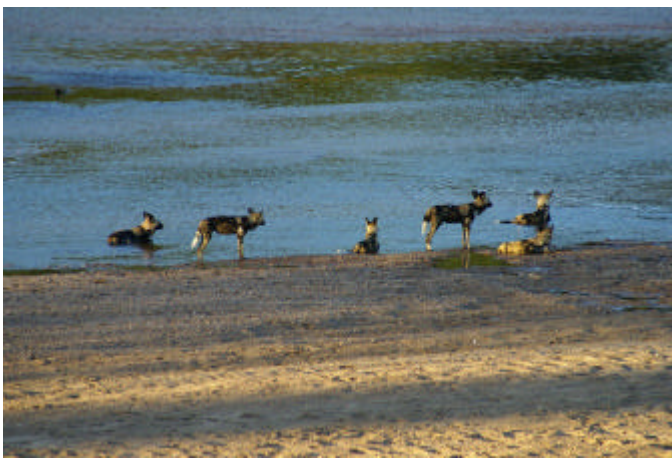


National Conservation Action Plan for Cheetah and African Wild Dog in Zambia

(Draft copy – NOT FOR CIRCULATION)



Suggested citation: Zambia Wildlife Authority (2009) *National Conservation Action Plan for cheetahs and wild dog in Zambia*



With support from:



Introduction:

Over the last decade it has been recognized that the conservation of wide ranging species requires planning at larger scales than individual countries, as viable populations often require areas that traverse national boundaries. The IUCN/SSC has officially recognized a process of conservation planning initially at the range wide scale and then at the national level by developing and implementing action plans. The IUCN/SSC is in the process of formalizing this approach to conservation planning – see the website below for details:

http://www.iucn.org/about/work/programmes/species/publications_technical_documents/publications/iucn_guidelines_and_policy_statements

Cheetah (*Acinonyx jubatus*) and wild dog (*Lycaon pictus*) require very large areas to sustain viable populations given their ecological requirements. As a result the IUCN/SSC Cat and Canid Specialist groups organized two regional planning workshops in 2007, one for East Africa and one for Southern Africa that brought together experts, conservation managers and government agencies to develop regional conservation strategies for cheetah and wild dog. The regional workshops initially involved mapping participants' knowledge of the range of the two species, and identifying threats to, and problems associated with, conserving them. The participants then addressed concerns raised during the first part of the workshop by developing regional conservation strategies.

As part of the process of implementing regional strategies it is important to develop National Action Plans (NAPs), as implementation occurs most effectively at the national level. NAPs are developed through a similar process used to develop regional strategies, but the workshops are held in-country and experts, managers and government agencies from within each country are asked to “translate” the regional strategy into an appropriate NAP. Hence, each NAP is developed with a greater degree of knowledge and understanding of the issues and legal framework of each country, something that cannot be fully addressed at the regional level of planning.

The national conservation action plan for cheetah and African wild dog in Zambia

A national action planning workshop for Zambia was held from 02 to 04 October 2009 in Lusaka, Zambia. At the workshop, participants evaluated data on the status, distribution and threats to cheetah and wild dog in Zambia and reviewed range maps developed at the regional planning workshop held in Botswana in 2007. The participants then translated the vision, goal, objectives, targets and actions incorporated in the regional strategy into a National Conservation Action Plan for Zambia. During this process each level was debated in a fully participatory manner and adapted to enable effective conservation of cheetah and African wild dog in Zambia. The National Action Conservation action plan is described in detail below. A logframe of the plan is also included as an appendix to this report.



Figure 1. Participants of the Zambia National Action Planning workshop for cheetah and wild dog conservation held in Lusaka, Zambia in October 2009.

Revised range maps for cheetah and wild dog in Zambia (note include tables of range areas)

One of the key activities of a National Planning workshop is the revision of range maps created at the regional workshop. At each National Planning workshop, there are more people present with information about the two species, including where they are known to exist and where they could exist with improved management. This activity also allows for open discussions of threats to the two species, and how these threats can be alleviated.

At the regional level participants created range maps for cheetah and wild dog based on six population categories – 1) *resident*: the species is known to exist and breed; 2) *possible*: the species might exist and be breeding but there are no reliable records; 3) *connecting*: areas where the species does not reside, but that are important for dispersal between resident populations; 4) *marginal*: the species exists and breeds but at low density; 5) *extirpated*: the species no longer exists in such areas, and is unlikely to exist in the future; and 6) *recoverable*: the species does not exist at present but could recolonise the area either naturally or artificially as a result of improved management.

The revisions made during the NAP workshop to the range map of cheetah and wild dog created at the regional workshop were quite considerable and exciting, resulting from the presence of 28 participants all of whom had new information to contribute.

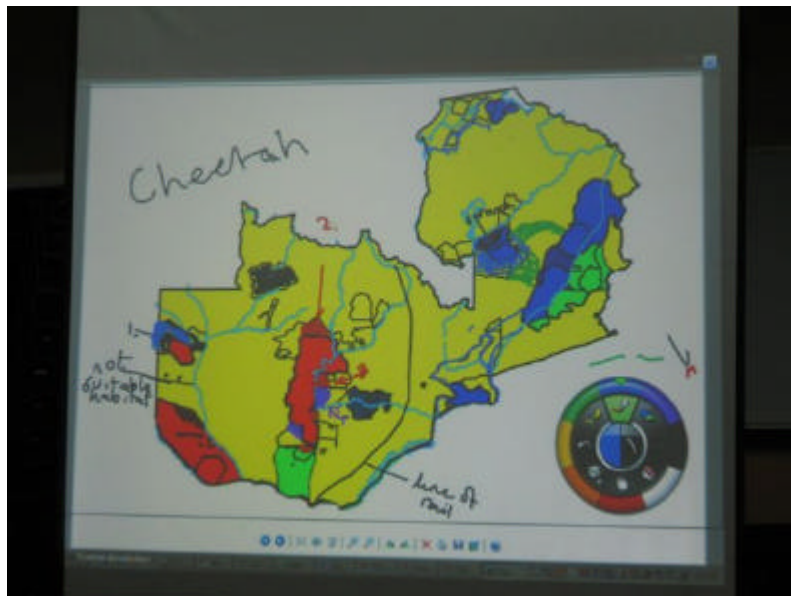
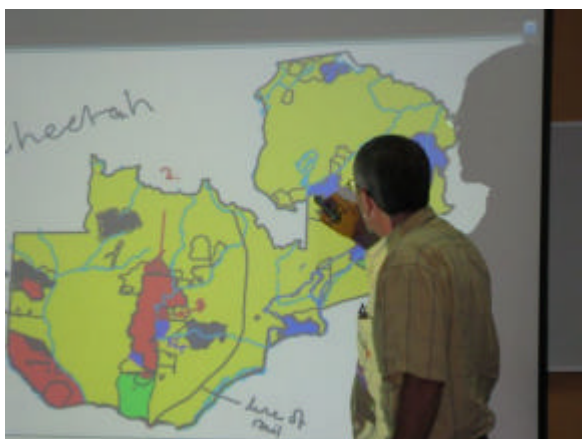
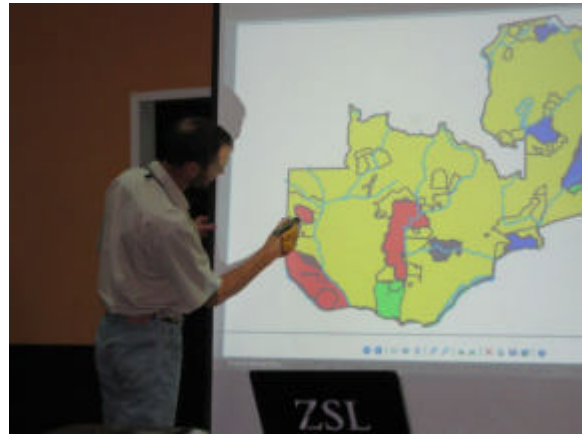


Figure 2. Various participants revising cheetah and wild dog range maps for Zambia using the EBeam tool. The bottom photo shows the final revised map for cheetah.

Revisions to the cheetah map included expanding known resident range slightly around Kafue National Park, converting unknown range into either extirpated or recoverable range, the latter by including recoverable range around Liuwa Plain National Park in the west and increasing the recoverable range area in the Luangwa complex of protected areas and the Bangwelu wetlands area, both in the east of the country (Figure 3, Table 1). Participants also agreed that two protected areas in the north of the country were recoverable areas for cheetahs (Figure 3). Cheetah were surprisingly deemed absent in the two Luangwa national parks and their surrounding Game Management Areas (GMAs), despite abundant prey and protected habitat in the region and that cheetahs historically occurred there, albeit at low density (Figure 3).

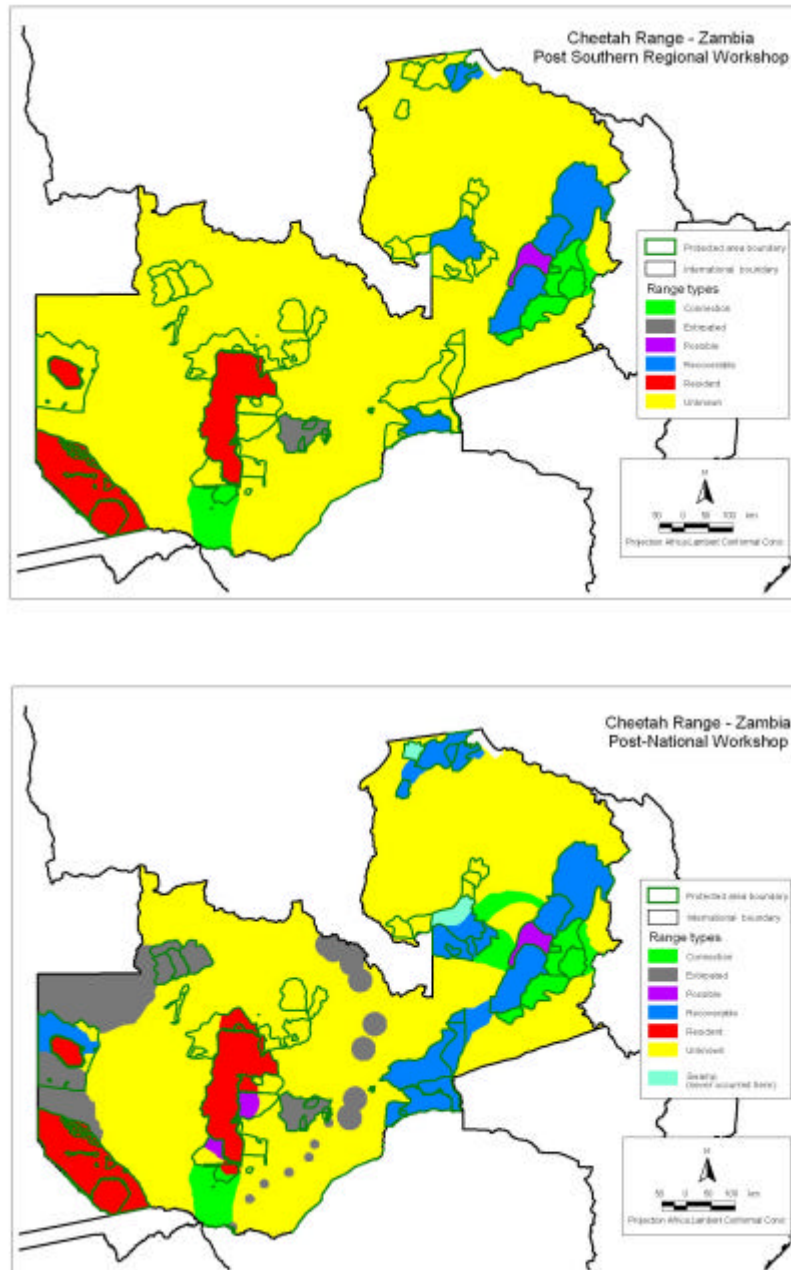


Figure 3. Cheetah range map developed at the regional workshop (top) and by participants of the Zambia NAP workshop (bottom).

Table 1. Summary of the extent of each type of range for cheetah within Zambia, and the percentage change as a result of the revision of the regional range map carried out during the workshop

Range type	Area (km ²) of range within Zambia - Original regional map	Area (km ²) of range within Zambia – post revision	% change in area of range
Resident	46,682	51,113	+ 10
Possible	3,238	6,514	+ 101
Connecting	24,758	32,234	+ 30
Recoverable	37,283	70,157	+ 88
Extirpated	5,430	67,791	+ 1148
Unknown	561,795	447,064	- 20
Swamp*	-	4,314	
Total	679,190	679,190	

*Swamp area was included for the first time as areas where cheetahs and wild dogs would not have occurred historically given the nature of the habitat .

The participants also wanted to include the highly modified areas around the main mining towns of the northern Copperbelt district, the capital city, Lusaka, in the centre of the country, and the main agriculture centres in the southern part of the country, the area of land known as the 'line of rail' as it follows the railway. These highly modified areas were included as buffers of extirpated land around each centre, allowing for areas of connectivity to exist between the west and east of the country. Participants strongly agreed that wild dogs and cheetahs could be existing in such areas as a few sightings have been recently recorded, and habitat and prey are probably present in much of the areas in between these large urban centres. It was also agreed that the same extirpated area along the line of rail would be used for the wild dog range map as well.

Revisions to the wild dog map expanded known resident range by 80% of its extent as mapped at the regional workshop in 2007 (Figure 4; Table 2). This expansion demonstrates that Zambia is a key country for the conservation of wild dogs. What was also clear from the revisions was the importance of corridors, for **both** species in terms of maintaining populations and allowing for natural recolonisation of areas identified as recoverable (e.g., the possibility of wild dogs naturally recolonising the Bangweulu area of Zambia if a corridor is established between this area and Luangwa). Likewise, participants stressed that the wild dog population from Lower Zambezi National Park near the Zambezi River in the south of the country to the northern boundary of the Luangwa Valley complex of protected areas, maintains viable populations of the species because of vital connecting areas within this resident range. This knowledge was used when the participants developed the action plan later in the workshop, incorporating the need to identify and protect key corridors under a number of objectives (see Objectives section)

The large areas within the country identified as recoverable for either or both species was also taken on board during the development of the national action plan, with the need for restoration of populations incorporated at the goal level (see Vision and Goal section) as well as in a number of the objectives.

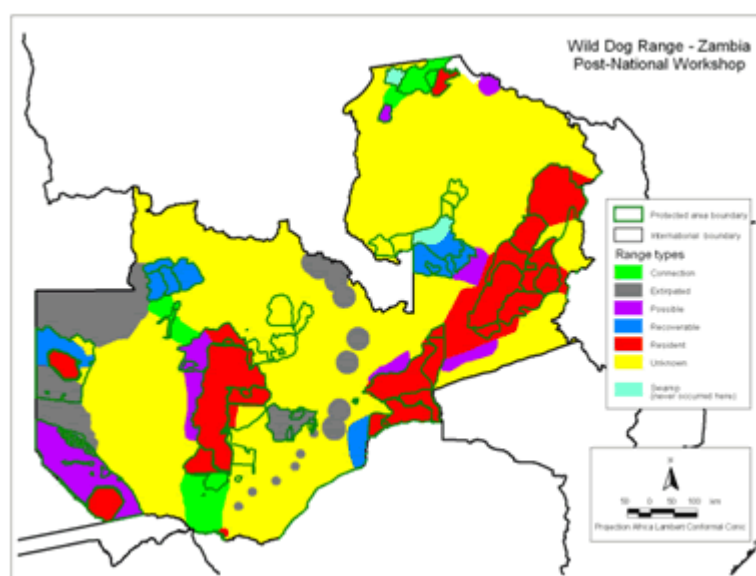
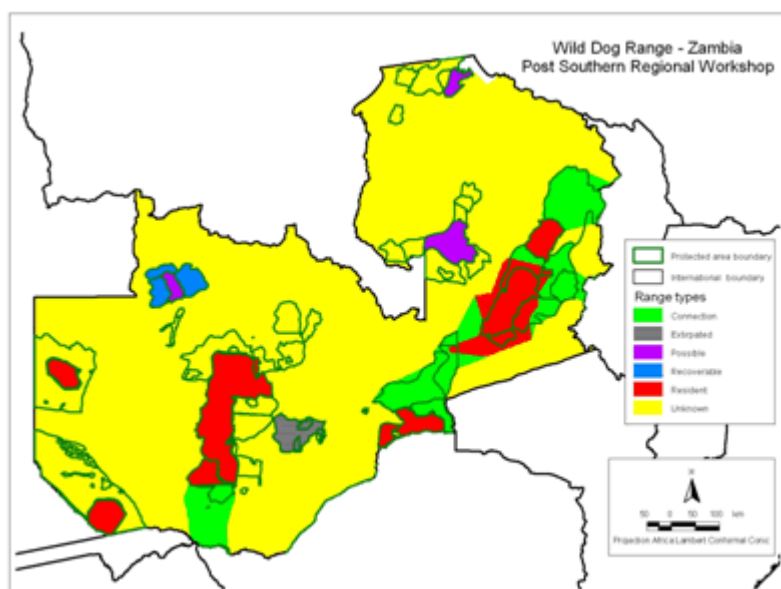


Figure 3. Wild dog range map developed at the regional workshop (top) and by participants of the Zambia NAP workshop (bottom).

Table 2: Summary of the extent of each type of range for wild dog within Zambia, and the percentage change as a result of the revision of the regional range map carried out during the workshop.

Range type	Area (km ²) of range within Zambia - Original regional map	Area (km ²) of range within Zambia - post revision	% change in area of range
Resident	60,511	110,865	+ 83.2
Possible	8,929	36,142	+ 304.8
Connecting	53,052	21,782	- 58.9
Recoverable	5,980	25,501	+ 326
Extirpated	5,443	61,797	+ 1035
Unknown	545,273	418,786	- 23.2
Swamp*	-	4,314	
Total	679,190	679,190	

*Swamp area was included for the first time as areas where cheetahs and wild dogs would not have occurred historically given the nature of the habitat.

Vision and Goal

The vision goal and objectives of the regional strategy were discussed in plenary to adapt them for a national action plan for Zambia

There was much discussion around the vision and goal with many comments made and recorded. It was noted that the regional vision incorporates the intrinsic value of cheetahs and wild dogs as well as their economic, social and cultural values. Participants also emphasized that viable should be the higher end of the scale (i.e., more than enough individual animals to ensure viability) rather than the lower end of the scale. They further noted that viable would be through a combination of increasing numbers but also connectivity within the system allowing for populations to disperse and interact, the system ultimately being a naturally functioning metapopulation. Finally they noted that viable should also be seen to incorporate ecological functioning populations of cheetahs and wild dogs.

The participants argued strongly that achieving secure, viable populations of cheetahs and wild dogs in Zambia would only be possible through a process of safeguarding existing populations, improving connectivity between populations as well as reintroducing animals into areas of the country where they occurred historically and are now thought to be absent or in low density. Participants agreed that this process would be incorporated into the goal statement by including the word “restore”.

The final vision and goal statements were agreed as follows:

Vision

Secure, viable cheetah and wild dog populations across a range of ecosystems, that successfully coexist with, and are valued by, the people of Zambia.

Goal

Improve the status of cheetahs and wild dogs, and restore and secure additional viable populations of cheetahs and wild dogs across their range in Zambia

Objectives

The objectives of the regional strategy were initially discussed within 6 working groups and then presented in plenary for final approval by all participants.

Objective 1: Capacity Development: Participants agreed that the wording of this objective from the regional strategy was appropriate at the national level for Zambia, and the only change in wording was to remove “Southern Africa” and replace it with “Zambia”.

Objective 2: Knowledge and information: It was argued and then agreed that there was a need to expand research into both cheetah and wild dog throughout Zambia and the objective was rewording to incorporate this need.

Objective 3: Information transfer: Participants agreed that the original wording of this objective from the regional strategy was appropriate.

Objective 4: Coexistence: There was much discussion over the wording of this objective as it was pointed out that Zambia has few records of conflict between people and cheetahs and wild dogs, rather that conflict is indirect as a result of human activities (such as snaring and road kills). However, it was pointed out that if populations of the two species increase in the country, which is part of the vision and goal, steps should be taken to enable to mitigate any conflict that occurs in a way that promotes coexistence. The objective was reworded to incorporate the Zambia situation.

Objective 5: Land use: This objective was reviewed intensively by the participants as the original wording from the regional strategy was considered to be inappropriate for the Zambia situation. The participants wanted an objective that incorporated the need for land use **and** management¹ to be appropriate to the ecological needs of cheetahs and wild dogs in Zambia – in other words, to allow for corridors to function effectively between populations to enable them to be viable. In addition the participants felt strongly that such appropriate land use would have to be encouraged through both incentives and penalties.

Objective 6: Political Commitment: Participants agreed that this objective was relevant as worded in the regional strategy and made no changes except to add “in Zambia”.

Objective 7: Policy and Legislation: Participants recognised that it was not possible to review and revise international legislation under a national action plan, and reworded the objective to focus on national legislation review. They also argued that a key part of ensuring that policy and legislation are effective for cheetah and wild dog conservation is working towards harmonizing cross sector legislation as cheetahs and wild dogs are affected by a variety of activities.

Objective 8: Implementation: The participants argued very strongly that for progress to be made in the future it would be crucial to include an objective similar to that of Objective 8 in the regional strategy focusing on successful implementation of the National Action Plan

The final objectives agreed upon at the national workshop included:

¹ acknowledging that the former is a legal term determining what activities can be done on the land, and the latter referring to how the land is managed under its designated land use.

Objectives

- 1 Develop capacity in all aspects of cheetah and wild dog conservation in Zambia. (*Capacity Development*)
- 2 Improve knowledge and expand research on the conservation biology of wild dogs and cheetahs across Zambia. (*Knowledge and information*)
- 3 Develop and implement mechanisms for the transfer of information relevant to cheetah and wild dog conservation and ensure active commitment of stakeholders. (*Information transfer*)
- 4 To promote coexistence between cheetah and wild dog with the people of Zambia, and enable communities to mitigate conflict where it occurs. (*Coexistence*)
- 5 Promote land use and management appropriate to the ecological needs of cheetahs and wild dogs in areas key to their conservation through a system of incentives and legislation. (*Land use*)
- 6 Obtain political commitment to the conservation needs of cheetah and wild dogs in Zambia (*Political commitment*)
- 7 Review and, where necessary, revise national legislation, policies and protocols, and where appropriate harmonise cross sector legislation affecting cheetah and wild dog conservation. (*Policy and legislation*)
- 8 Implement the national action plan for the conservation of cheetah and wild dog in Zambia. (*Implementation*)

Targets and activities

The participants then continued split into smaller working groups to discuss the objectives. Each group was tasked with reviewing and revising, where necessary, the targets and activities under each of the eight objectives agreed during the plenary session. The working groups given objectives were as follows:

Working group 1

- 1 Develop capacity in all aspects of cheetah and wild dog conservation in Zambia.
- 6 Obtain political commitment to the conservation needs of cheetah and wild dogs in Zambia.



Figure 3. Working group 1 - Capacity development and Political commitment.

Working group 2

- 2 Improve knowledge and expand research on the conservation biology of wild dogs and cheetahs across Zambia.



Figure 4. Working group 2 - Improving knowledge.

Working group 3

- 3 Develop and implement mechanisms for the transfer of information relevant to cheetah and wild dog conservation and ensure active commitment of stakeholders.



Figure 5. Working group 3 - Information transfer.

Working group 4

4 To promote coexistence between cheetah and wild dog with the people of Zambia, and enable communities to mitigate conflict where it occurs.



Figure 6. Working group 4 – Coexistence.

Working group 5

5 Promote land use and management appropriate to the ecological needs of cheetahs and wild dogs in areas key to their conservation through a system of incentives and legislation.



Figure 7. Working group 5 – Land use.

Working group 6

7 Review and, where necessary, revise national legislation, policies and protocols, and where appropriate harmonise cross sector legislation affecting cheetah and wild dog conservation.



Figure 8. Working group 6 – Policy and legislation.

The final revisions to the targets and activities under each objective are included in the section below. Responsible parties, time frames, resources required and verifiable indicators are included in the log frame in the appendices.

1. Capacity Development

Objective: Develop capacity in all aspects of cheetah and wild dog conservation in Zambia.

CD1 Target: Identify gaps in capacity in all areas of cheetah and wild dog conservation in Zambia within two years.

Activities:

CD1.1 Create a panel to conduct evaluations.

CD1.2 Conduct evaluations to establish current situation and identify gaps for in capacity research and monitoring.

CD1.3 Conduct evaluations to establish current situation and identify gaps for in capacity education and outreach.

CD1.4 Conduct evaluations to establish current situation and identify gaps in law enforcement.

CD2 Target: Develop and implement a manual and training module designed for law enforcement personnel in Zambia.

Activities:

CD2.1 Research, design and produce a training manual to be incorporated in law enforcement personnel training and refresher courses.

CD2.2 Conduct training courses for training trainers of law enforcement personnel focused on cheetah and wild dog law enforcement, monitoring, data collection, ecology and conflict mitigation.

CD2.3 Secure necessary resources and partnerships to enable the development and implementation of target.

CD3 Target: Develop strategy and programme to generate passion, awareness and opportunities in the scientific community for cheetah and wild dog to develop capacity within two years.

Activities:

CD3.1 Create a database of institutions and programmes involved in research and monitoring.

CD3.2 Identify a committee to drive the development of a strategy and programme for building capacity within the scientific community.

CD3.3 Secure necessary resources and partnerships to enable the development and implementation of target.

CD4 Target: Develop an outreach programme to generate passion, awareness and opportunity in the educational community (local authority,)for cheetah and wild dog to develop capacity within two years.

Activities:

CD4.1 Identify a committee to drive the development of a programme for building capacity within the educational community.

CD4.2 Secure necessary resources and partnerships to enable the development and implementation of target.

2. Knowledge and information

Objective: Improve knowledge and expand research on the conservation biology of wild dogs and cheetahs across Zambia.

IK1 Target: Acquire information about current and historical status, distribution and connectivity of cheetah and wild dog populations across Zambia and identify recoverable and non recoverable range within five years.

Activities:

- IK1.1 Assess and identify recoverable range for factors likely to influence recolonisation (natural or artificial) and develop a restocking programme in areas found suitable.
- IK1.2 Develop a central database on cheetah and wild dog and identify a coordinator to maintain it.
- IK1.3 Continue to update the Zambian cheetah and wild dog atlas and contribute to the regional atlas.

IK2 Target: Acquire better understanding of the ecology of cheetah and wild dogs in Zambia within five years.

Activities:

- IK2.1 Develop standardised monitoring and field techniques for cheetah and wild dog studies.
- IK2.2 Identify a project partner and initiate studies on cheetah where known populations exist in Zambia.
- IK2.3 Expand studies on wild dog to other areas where known populations exist in Zambia.
- IK2.4 Implement and expand long term monitoring programmes of cheetah and wild dog populations in Zambia.
- IK 2.5 Initiate surveys in unknown and possible range to assess population status and distribution for cheetah and wild dog in Zambia.
- IK2.6 Implement studies on competitive predators i.e., lion, hyena, leopard

IK3 Target: Generate standardised, quantitative knowledge of current and historical conflicts, threats and their drivers and possible mitigation measures across Zambia within two years.

Activities:

- IK3.1 Compile available data on conflict, threats and their mitigation and, where possible, collate in standardised formats, within two years.
- IK3.2 Initiate studies (field studies, surveys, questionnaires for historical and existing data) to quantify conflict, threat, their drivers and mitigation and effects on population viability.
- IK 3.3 Identify shortfalls in existing knowledge about conflicts threats and their mitigation.
- IK 3.4 Generate knowledge on present and emerging threats to cheetah and wild dog conservation including illegal trade and develop mitigation measures.
- IK3.5 Produce handbook on mitigating methods.

3. Information transfer

Objective: Develop and implement mechanisms for the transfer of information relevant to cheetah and wild dog conservation and ensure active commitment of stakeholders.

IT 1 Target: Identify relevant benefits to local communities, governments and landowners within three years.

Activities:

IT1.1 Conduct literature review to consolidate information on potential benefits of cheetah and wild dog conservation across the country within one year.

IT1.2 Hold meetings and workshops with communities, land owners, game farmers, tour operators, government departments and other stakeholders, to collect information to identify relevant incentives and benefits within three years.

IT 2 Target: Initiate and establish awareness programs of threats and benefits across the country in areas where the species occur or are likely to occur within one year.

Activities:

IT 2.1 Develop a database on cheetah and wild dog by collecting information through distributing standardised forms across the country within two years.

IT2.2 Create a website that provides access to the national cheetah and wild dog database within one year.

IT 2.3 Develop multimedia projects (posters, leaflets, radio, TV, video, pictures, drama) across the country where wild dog or cheetah occur or are likely to occur using the available information within three years.

IT 2.4 Create an electronic biannual newsletter and distribute to scientists and interested stakeholders within one year.

IT 2.5 Develop curricula regarding cheetah and wild dogs and integrate with activities of Chongololo and Conservation Clubs within three years.

IT 2.6 Organise competitions, essays, etc in schools and between schools to enhance and highlight conservation education within three years.

IT2. 7 Encourage sponsorship of sports teams, clubs and groups named after cheetah and wild dog at all levels.

IT.3 Target: Create forums for sharing information about cheetah and wild dogs within three years.

Activities:

IT 3.1 Hold at least one annual national workshop with government, researchers, private sector and NGOs to share information on the conservation management of cheetah and wild dog.

IT3.2 Participate in a wider range of meetings and stakeholder interest groups (i.e., those not directly concerned with conservation) to disseminate information about cheetah and wild dog conservation; initiate within one year.

4. Coexistence

Objective: To promote coexistence between cheetah and wild dog with the people of Zambia and enable communities to mitigate conflict where it occurs.

C1 Target: To minimise incidental mortality in cheetah and wild dogs in all range areas in Zambia within five years.

Activities:

C1.1 Clarify and monitor extent of incidental mortality of cheetah and wild dogs in all range areas.

C1.2 Minimise snaring mortality of cheetah and wild dogs through initiatives such as anti

- poaching efforts and community conservation.
- C1.3 Where appropriate, initiate programmes known to be effective at managing diseases that threaten cheetah and wild dog population viability.
- C1.4 Implement targeted, enforceable programmes which reduce road mortality of Cheetah and wild dog
- C1.5 Identify and remove sources of wire snares.

- C2 *Target: Raise awareness of issues related to cheetah and wild dog conservation among relevant stakeholders in all current and future range areas in Zambia within three years.*
Activities:
 - C2.1. Develop and disseminate education and awareness materials for both adults and children in all range areas.
 - C2.2 Create and implement multi media programmes to raise awareness and understanding of cheetah and wild dog conservation in all range areas.
 - C2.3 Sensitise leaders of the value of cheetah and wild dog conservation.

- C3 *Target: Measurably increase perceived intrinsic and economic value of cheetah and wild dogs to all stakeholders within five years.*
Activities:
 - C3.1 Quantify and monitor the perceived intrinsic and economic value of cheetah and wild dogs to all stakeholders
 - C3.2 Develop appropriate value added activities such as tourism in all range areas
 - C3.3 Investigate and highlight cultural values of cheetah and wild dogs across all range areas.
 - C3.4 Where relevant, develop self-sustaining community schemes that offset the costs of, and internalise the responsibilities for, conflict.
 - C3.5 Where appropriate, develop income generation and capacity development projects linked to cheetah and wild dog conservation.

5. Land use

Objective: Promote land use and management appropriate to the ecological needs of cheetah and wild dogs in areas key to their conservation in Zambia through a system of incentives and legislation

LU1 Target: Identify critical areas for cheetah and wild dog and rank them in order of ecological sensitivity within 1 year.

Activities:

- LU1.1 Mapping where cheetah and wild dog occurs and could occur
- LU1.2 Rank the areas where cheetah and wild dog occurs according to ecological sensitivity.
- LU1.3 Identify and map corridors for cheetah and wild dog.

LU2 Target: Integrate cheetah and wild dog conservation needs into all land use plans within the next four years.

Activities:

- LU 2.1 Sensitize communities on the importance of wild dog and cheetah and the need of finding more effective ways of protecting livestock.

LU2.1 Zoning land for different land uses e.g. settlement, farming, Wildlife etc.

LU3 Target: Develop incentives for land use that enhances Cheetah and wild dog conservation in potential habitats (e.g., private game ranches, communal land where there has been no conservation) within four years.

Activities:

LU3.1 Provide communities with benefits from tourism in their areas.

LU3.2 Community education about the benefits of having cheetah and wild dog their areas.

LU3.3 Introduction of tax rebates for people involved in wildlife tourism and conservation – especially involving cheetah and wild dog

LU3.4 Raising the awareness of CRBs to different models of income generation from wildlife (Hunting and Tourism).

6. Political commitment

Objective: Obtain political commitment to the conservation needs of Cheetah and wild dogs in Zambia.

PC1 Target: Regional agreement to collaborate in conserving cheetah and wild dogs across southern Africa to be signed by Zambia

Activities:

PC1.1 Agreement drafted by IUCN, SSC, Cat and Canid specialists groups based on this strategic plan.

PC1.2 Agreement to be presented to National Agencies who will then present to Ministers.

PC1.3 Organize a regional state meeting where the agreements will be formally signed.

PC2: Target: Encourage the signing of outstanding and future transboundary agreements that would benefit the conservation of cheetah and wild dog.

Activities:

PC2.1 Identify current and potential transboundary agreements.

PC2.2 Lobby for agreements to be signed by mobilizing stakeholders and relevant government bodies.

PC3: Target: Encourage local and national authorities to collaborate in governance promoting the conservation of cheetah and wild dog.

Activities:

PC3.1 Identify appropriate Traditional, District, Provincial and National Authorities and other relevant institution in cheetah and wild dog areas.

PC3.2 Lobby and encourage said authorities and institutions to engage in development of agreements promoting conservation of cheetah and wild dog.

7. Policy and Legislation

Objective: Review and where necessary revise national legislation policies and protocols, and where appropriate harmonise cross sector legislation affecting cheetah and wild dog conservation.

PL1 Target: Conduct periodic assessments of the national policies and legislation including harmonisation of intersectoral and international legislation of conservation and management of cheetah and wild dog populations beginning 2010.

Activities:

PL1.1 Mobilise resources and draw terms of reference for a consultant to carry out an assessment of legislation, policies and protocols.

PL1.2 Undertake the consultancy and present findings and recommendations to ZAWA.

PL1.3 Formulate and implement a communication strategy aimed at disseminate information on proposed changes to policy, legislation and protocol

PL1.4 Collect information on trafficking trends of cheetah and wild dog

PL2. Target: Revise and harmonise policies, protocols and legislation, where appropriate within seven years.

Activities:

PL2.1 All relevant agencies and stakeholders critical to the conservation of wild dog and cheetah to draw up and or/ amend policies, protocols and legislation where needed, within four years.

PL2.2 Enact these new and/ or amended policies, protocols and legislation.

PL2.3 Implement these new and/ or amended policies, protocols and legislation.

PL3 Target: To improve the capacity of law enforcement and judicial agencies to implement legislation, policies and protocols relevant to cheetah and wild dog conservation within seven years.

Activities:

PL3.1 identify and prioritise capacity needs to implement legislation, policies and protocols.

PL3.2 mobilise resources required to improve capacity.

PL3.3 develop capacity according to priorities set.

PL4 Target: Attain effective communication and collaboration between all relevant law enforcement agencies and ZAWA and its partners in wildlife management authorities within 3 years.

Activities:

PL4.1 Hold workshops with all relevant stakeholders involved in law enforcement.

PL4.2 Establish network with international law enforcement agencies.

PL4.3 Implement standardised reporting mechanism and strategies.

PL5 Target: Land use planning for conservation areas should be enshrined in the Wildlife Act to describe permissible and non-permissible activities

Activities:

PL5.1 Amend Wildlife Act with reference to areas of particular importance to wild dogs and cheetah conservation.

Activities:

PL5.2 Develop Statutory Instruments regarding amendments.

8. Implementation

Objective: Implement the national action plan for cheetah and wild dog in Zambia.

Activities:

I 1 Target: Implement national action conservation action plan.


I 1.1 Edit, review and publish national workshop report.

I 1.2 Endorse national conservation action plan.






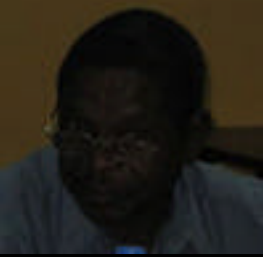


I 1.3 Disseminate national conservation action plan to stakeholders in Zambia.

I 1.4 Identify and appoint a national coordinator for the implementation of the action plan.

Appendix 1. List of participants

Name and contact details of participant	Photograph
<p>Dr Victor Siamudaala Director of Research and Planning, Zambia Wildlife Authority Email: vsiamudaala@yahoo.co.uk Tel: + 260 211 278385; Cell: + 260 977 856876</p>	
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Log frame of the draft National Conservation Action Plan for cheetahs and wild dogs in Zimbabwe

(Note: Objectives do not appear in this log frame in any order of priority but have been included in alphabetical order)

Vision:

Secure, viable cheetah and wild dog populations across a range of ecosystems, that successfully coexist with, and are valued by, the people of Zambia

Goal:

Improve the status of cheetahs and wild dogs, and restore and secure additional viable populations across their range in Zambia

Objective: Political commitment

Obtain political commitment to the conservation needs of cheetah and wild dogs in Zambia

Objective: Capacity Development

Develop capacity in all aspects of cheetah and wild dog conservation in Zambia

Objective: Coexistence

To promote coexistence between cheetah and wild dog and the people of Zambia and enable communities to mitigate conflict where it occurs

Objective: Policy and Legislation

Review, and where necessary revise national legislation, policies and protocols, and where appropriate harmonise cross sector legislation affecting cheetah and wild dog conservation

Objective: Information transfer

Develop and implement mechanisms for the transfer of information relevant to cheetah and wild dog conservation and ensure the commitment of stakeholders

Objective: Land use

Promote land use and management appropriate to the ecological needs of cheetahs and wild dogs in areas key to their conservation in Zambia through a system of incentives and legislation

Objective: Improving knowledge

Improve knowledge and expand research on the conservation biology of cheetah and wild dog in Zambia

Objective: Implementation

Implement the national action plan for the conservation of cheetah and wild dog in Zambia

List of acronyms used in log frame:

ZAWA – Zambia Wildlife Authority

SLCS – South Luangwa Conservation Society

AWDC – African Wild Dog Conservation

CRB – Community Resource Board

RTSA – Road Traffic Safety Authority

WWF – World Wildlife Fund (Zambia)

ECZ – Environment Council of Zambia

Theme: Capacity Development

Objective: Develop capacity in all aspects of cheetah and wild dog conservation in Zambia

Target	Activity	Responsible parties	Time Frame	Resources required	<i>Verifiable indicators</i>
CD.1 Identify gaps in capacity in all areas of cheetah and wild dog conservation in Zambia within a year	CD1.1 Create a panel to conduct evaluations ²	National coordinator	6 months	Travel costs, meeting costs	Panel formed and meetings held
	CD1.2 Conduct evaluations to establish current situation and identify gaps for in capacity research and monitoring	Panel and National coordinator	1 year	Funding to cover cost of evaluations	Evaluations available
	CD1.3 Conduct evaluations to establish current situation and identify gaps for in capacity education and outreach	Panel and National coordinator	1 year	Funding to cover cost of evaluations	Evaluations available
	CD1.4 Conduct evaluations to establish current situation and identify gaps in law enforcement	Panel and National coordinator	1 year	Funding to cover cost of evaluations	Evaluations available
CD 2 Develop and implement a manual and training module designed for law enforcement personnel in Zambia, within three years.	CD2.1 Research, design and produce a training manual to be incorporated in law enforcement personnel training and refresher courses	National C/WD Coordinator, ZAWA, SLCS	1 year	Salary for project leader, origination costs and printing costs	Training Manual
	CD2.2 Conduct training courses for training trainers of law enforcement personnel focused on cheetah and wild dog law enforcement, monitoring, data collection, ecology and conflict mitigation	National C/WD Coordinator, ZAWA, other relevant partner conservation organizations	18 months	Appropriate venue, food and accommodation costs, trainers fees, equipment	Training courses held
	CD2.3 Secure necessary resources and partnerships to enable the development and implementation of target	National C/WD Coordinator, ZAWA, other relevant partner conservation organizations	Ongoing	National coordinator in place, lead personnel in conservation organizations committed	Target achieved
CD 3 Develop strategy and programme to generate passion, awareness and opportunities in the scientific community for cheetah and wild dog to	CD3.1 Create a database of institutions and programmes involved in research and monitoring	National C/WD Coordinator & ZAWA	3 months	National coordinator in place	Database

² assuming a National cheetah and wild dog Coordinator has been employed and a National Committee has been identified

develop capacity within two years					
	CD3.2 Identify a committee to drive the development of a strategy and programme for building capacity within the scientific community	National C/WD Coordinator & ZAWA	1 year	Committed individuals to form committee, National coordinator in place, appropriate venue and funds to cover cost of meetings	Committee in place and meetings taking place
	CD3.3 Secure necessary resources and partnerships to enable the development and implementation of target	National C/WD Coordinator, ZAWA, other relevant partner conservation organizations	Ongoing	Committed individuals to form committee, National coordinator in place,	Target achieved
CD 4 Develop an outreach programme to generate passion, awareness and opportunity in the educational community (local authority,)for cheetah and wild dog to develop capacity within two years	CD4.1 Identify a committee to drive the development of a programme for building capacity within the educational community	National C/WD Coordinator & ZAWA	1 year	Committed individuals to form committee, National coordinator in place, appropriate venue and funds to cover cost of meetings	Committee in place and meetings taking place
	CD4.2 Secure necessary resources and partnerships to enable the development and implementation of target	National C/WD Coordinator, ZAWA, other relevant partner conservation organizations	Ongoing	Committed individuals to form committee, National coordinator in place,	Target achieved

Theme: Coexistence

Objective: To promote coexistence between cheetah and wild dog with the people of Zambia and enable communities to mitigate conflict where it occurs

Target	Activity	Responsible parties	Time Frame	Resources required	<i>Verifiable indicators</i>
C1 To minimise incidental mortality in cheetah and wild dogs in all range areas in Zambia within five years	C1.1 Clarify and monitor extent of incidental mortality of cheetah and wilddogs in all range areas	ZAWA conservation partners, tour and safari operators, CRBs	3 years	Personnel, computer, vehicle and funds to collect data	Report on extent of incidental mortality
	C1.2 Minimise snaring mortality of Cheetah and Wild dogs through intaitives such as anti poaching efforts and community conservation	ZAWA, conservation partners and CRBs	5 years	Anti-poaching personnel, vehicles, kit, personnel to work with communities	Snaring records decrease
	C1.3 Where appropriate, intiate programmes know to be effective at managing deseases that threaten Cheetah and Wild dog population vaibility	ZAWA and Department of Vet Services	5 years	Vaccines, trained veterinary personnel, vehicles, funds for vaccination campaigns	Vaccination records
	C1.4 Implement targeted, enforceable programmes which reduce road motality of Cheetah and wild dog	ZAWA and RTSA	5 years	Personnel, vehicles, signs,	Reduced incidence of road mortality
	C1.5 Identify and remove sources of wire snares	ZAWA, conservation partners and CRBs	Ongoing	Personnel, trained dogs, vehicles, funds for salaries and awareness campaigns	Reduced incidence of snaring
C2 Raise awareness of issues related to cheetah and wild dog conservation among relevant stakeholders in all current and future range areas in Zambia within three years	C2.1 Develop and disseminate education and awareness materials for both adults and childrens in all range areas	ZAWA conservation partners, tour and safari operators, CRBs	2 years	Personnel to develop material, origination and printing cost of educational material, personnel to disseminate material	Education material available
	C2.2 Create and implement multi media programmes to raise awareness and understanding of Cheetah and Wild dog conservation in all range areas	ZAWA and conservation partners	2 years	Personnel to develop multimedia programmes, funds to cover filming, website design, magazines, TV programmes etc	Multi media material available
	C2.3 Sensitise leaders of the value of Cheetah and Wild dog conservation	ZAWA and conservation partners	2 years	Personnel to engage with leaders	Meetings held
C3 Measurably increase perceived intrinsic and economic value of cheetah and wild dogs to all stakeholders within five years	C3.1 Quantify and monitor the percieved intrinsic and economic value of Cheetah and Wilddogs to all stakeholders	ZAWA and conservation partners	Ongoing		

	C3.2 Develop appropriate value added activities such as tourism in all range areas	ZAWA and tour operators	5 years		
	C3.3 Investigate and highlight cultural values of Cheetah and Wild dogs across all range areas	ZAWA and conservation partners	2 years		
	C3.4 Where relevant, develop self sustaining community schemes that off sets the costs, and internalise responsibilities for conflicts	ZAWA, conservation partners and CRBs	3 years		
	C3.5 Where appropriate, develop income generation and capacity development projects linked to cheetah and wild dog conservation	ZAWA, conservation partners and CRBs	3 years		

Theme: Improving knowledge

Objective: Improve knowledge and expand research on the conservation biology of wild dogs and cheetah across Zambia

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
IK1 Acquire information about current and historical status, distribution and connectivity of cheetah and wild dog populations across Zambia and identify recoverable and non recoverable range within five years	IK1.1 Assess and identify recoverable range for factors likely to influence recolonisation (natural or artificial) and develop a restocking programme in areas found suitable	ZAWA, AWDC, African Parks	2 years		
	IK1.2 Develop a central database on cheetah and wild dog and identify a coordinator to maintain it	ZAWA and regional coordinator	1 year		
	IK1.3 Continue to update the Zambian cheetah and wild dog atlas and contribute to the regional atlas	ZAWA, national coordinator and all stake holders	Ongoing		
IK2 Acquire a better understanding of the ecology of cheetah and wild dogs in Zambia within five years.	IK2.1 Develop standardised monitoring and field techniques for cheetah and wild dog studies	ZAWA, AWDC, regional coordinator	1 year		
	IK2.2 Identify a project partner and initiate studies on cheetah where known populations exist in Zambia	ZAWA	1 year		
	IK2.3 Expand studies on wild dog to other areas where known populations exist in Zambia	ZAWA, AWDC	1 year		
	IK2.4 Implement and expand long term monitoring programmes of cheetah and wild dog populations in Zambia	ZAWA, CRB's, Tour operators, hunters, AWDC, NGO's,	Ongoing		
	IK2.5 Initiate surveys in unknown and possible range to assess population status and distribution for cheetah and wild dog in Zambia	ZAWA, AWDC	3 years		
	IK2.6 Implement studies on competitive predators i.e., lion, hyeana, leopard	ZAWA, AWDC	2 years		
IK3 Generate standardised, quantitative knowledge of current and historical conflicts, threats and their drivers and possible mitigation	IK3.1 Compile available data on conflicts, threats and their mitigation and where possible collate in standardised formats	ZAWA, AWDC	2 years		

measures across Zambia within two years					
	IK3.2 Initiate studies (field studies, surveys, questionnaires for historical and existing data) to quantify conflict, threat, their drivers and mitigation and effects on population viability	ZAWA, AWDC	Ongoing		
	IK3.3 Identify shortfalls in existing knowledge about conflicts threats and their mitigation	ZAWA, AWDC	2 years		
	IK3.4 Generate knowledge on present and emerging threats to cheetah and wild dog conservation including illegal trade and develop mitigation measures	ZAWA, AWDC	1 year		
	IK3.5 Produce handbook on mitigating methods	ZAWA, AWDC, WWF	3 years		

Theme: Information transfer

Objective: Develop and implement mechanisms for the transfer of information relevant to cheetah and wild dog conservation and ensure active commitment of stakeholders

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
IT 1 Identify benefits to relevant stakeholders within three years.	IT 1.1 Conduct literature review to consolidate information on potential benefits of cheetah and wild dog conservation across the country within one year.	Director, Research, ZAWA	1 year		
	IT 1.2 Hold meetings and workshops with communities, land owners, game farmers, tour operators, government departments and other stakeholders, to collect information to identify relevant incentives and benefits within three years.	Director, Research, ZAWA (Head of Planning)	3 years		
IT.2 Initiate and establish awareness programs of threats and benefits across the country in areas where the species occur or are likely to occur within one year.	IT.2.1 Develop a database on cheetah and wild dog by collecting information through distributing standardised forms across the country within two years.	Director, Research, ZAWA (Head of Information)	2 years		
	IT 2.2 Create a website that provides access to the national cheetah and wild dog database within one year	Director, Research, ZAWA (Head of Information)	1 year		
	IT 2.3 Develop multimedia projects (posters, leaflets, radio, TV, video, pictures, drama) across the country where wild dog or cheetah occur or are likely to occur using the available information within three years.	ZAWA and Partners	3 years		
	IT 2.4 Create an electronic biannual newsletter and distribute to scientists and interested stakeholders within one year.	Volunteer/Interested party	1 year		
	IT 2.5 Develop curricula regarding cheetah and wild dogs and integrate with activities of Chongololo and Conservation Clubs within three years.	Director of Research/Partners	3 years		
	IT 2.6 Organise competitions, essays, etc in schools and between schools to enhance and highlight conservation education within three years.	Director of Research/Partners	3 years		
	IT.2.7 Encourage sponsorship of sports teams, clubs and groups named after cheetah and wild dog at all levels.	All parties	Ongoing		
IT 3 Create forums for sharing information about cheetah and wild dogs within three years.	IT 3.1 Hold at least one annual national workshop with government, researchers, private sector and NGOs to share information on the conservation management of cheetah and wild	Director of Research, ZAWA	Annually		

	dog.				
	IT 3.2 Participate in a wider range of meetings and stakeholder interest groups (i.e. those not directly concerned with conservation) to disseminate information about cheetah and wild dog conservation; initiate within one year.	All parties	Ongoing		

Theme: Land use

Objective: Promote land use and management appropriate to the ecological needs of cheetah and wild dogs in areas key to their conservation in Zambia through a system of incentives and legislation

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
LU 1: Identify critical areas for Cheetah and Wild dog and rank them in order of ecological sensitivity within 1 year	LU 1.1 Mapping where cheetah and wild dog occurs and could occur	ZAWA, CRBs, Lodge owners and Safari Outfitters	6 months		
	LU1.2 Rank the areas where cheetah and Wild dog occurs according to ecological sensitivity.	ZAWA, Conservation partners	1 month		
	LU1.3 Identify and map corridors for cheetah and Wild dog.	ZAWA, Conservation partners	2 months		
LU2 Integrate cheetah and wild dog conservation needs into all land use plans within the next four years	LU2.1 Sensitize communities on the importance of wild dog and cheetah and the need of finding more effective ways of protecting livestock.	ZAWA, CRBs, Local Communities, Traditional Leaders.	2 months		
	LU2.2 Zoning land for different land uses e.g. settlement, farming, Wildlife etc	ZAWA, CRBs, Local Communities, Traditional Leaders.	Ongoing		
LU3. Develop incentives for land use that enhances Cheetah and wild dog conservation in potential habitats (e.g private game ranches, communal land where there has been no conservation) within 4 years	LU3.1 Provide communities with benefits from tourism in their areas	CRBs, Traditional Leaders, Local Council, ZAWA, Conservation Partners, other government line ministries.	2 years		
	LU3.2 Community education about the benefits of having cheetah and Wild dog their areas	CRBs, Traditional Leaders, Local Council, ZAWA, Conservation Partners, other government line ministries.	Ongoing		
	LU3.3 Introduction of tax rebates for People involved in wildlife tourism and conservation – especially involving cheetah and wild dog	CRBs, Traditional Leaders, Local Council, ZAWA, Conservation Partners, other government line ministries.	Ongoing		

	LU3.4 Raising the awareness of CRBs to different models of income generation from wildlife(Hunting and Tourism)	CRBs, Traditional Leaders, Local Council, ZAWA, Conservation Partners, other government line ministries.	2 years		
LU4. Enact legislation in order to promote appropriate land use for Cheetah and Wild dog conservation with 4 years	LU4.1 Identify land uses that are damaging to conservation of cheetah and Wild dog	Local Communities, Conservation partners, local councils, Agriculture, Forestry, ZAWA, ECZ	1 year		
	LU4.2 Enact legislation preventing the damaging land uses in key cheetah and Wild dog areas(See Target LU 1)	Local Communities, Conservation partners, local councils, Agriculture, Forestry, ZAWA, ECZ	Ongoing		

Theme: Policy and legislation

Objective: Review and where necessary revise national legislation policies and protocols, and where appropriate harmonise cross sector legislation affecting cheetah and wild dog conservation.

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
PL 1 Conduct periodic assessments of the national policies and legislation including harmonisation of intersectoral and international legislation of conservation and management of cheeta and wild dog populations beginning 2010	PL 1.1 Mobilise resources and draw terms of reference for a consultant to carry out an assessment of legislation, policies and protocols	ZAWA	1 year		
	PL 1.2 Undertake the consultancy and present findings and recommendations to ZAWA	Consultant	1 year		
	PL 1.3 Formulate and implement a communication strategy aimed at disseminate information on proposed changes to policy, legislation and protocol	ZAWA	2 years		
	PL 1.4 Collect information on trafficking trends of cheetah and wild dog	ZAWA	Ongoing		
PL.2 Revise policies, protocols and legislation where appropriate within seven years	PL 2.1 All revelant agencies and stakeholders critical to the conservation of wild dog and cheeta to draw up and or/ amend policies, protocols and legislation where needed, within four years	ZAWA	4 years		
	PL 2.2 Enact these new and/ or amended policies, protocols and legislation	ZAWA	3 years		
	PL 2.3 Implement these new and/ or amended policies, protocols and legislation	All stakeholders	Ongoing		
PL3 Improve capacity of law enforcement and judicial agencies to implement legislation, policies and protocols relevant to cheeta and wild dog within seven years	PL 3.1 identify and prioritise capacity needs to implement legislation, policies and protocols	All stakeholders	6 months		
	PL 3.2 mobilise resources required to improve capacity	ZAWA and all stakeholders	1 year		
	PL 3.3 develop capacity according to priorities set	ZAWA and all stakeholders	7 years		
PL 4 Attain effective communication and collaboration between all	PL 4.1 Hold workshops with all relev ant stakeholders involved in law enforcement	ZAWA	1 year		

relevant law enforcement agencies and ZAWA and its partners in wildlife management within five years					
	PL 4.2 Establish network with international law enforcement agencies	ZAWA	Ongoing		
	PL 4.3 Implement standardised reporting mechanism and strategies	ZAWA	Ongoing		
PL 5 Land use planning for conservation area should be enshrined in the Wildlife Act to describe permissible and non-permissible activities.	PL 5.1 Amend Wildlife Act with reference to areas of particular importance to wild dogs and cheetah conservation	ZAWA	1 year		
	PL 5.2 Develop Statutory Instruments regarding amendments	ZAWA	1 year		

Theme: Political commitment

Objective: Obtain political commitment to the conservation needs of cheetah and wild dogs in Zambia

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
PC1 Regional agreement to collaborate in conserving cheetah and wild dogs across southern Africa to be signed by Zambia	PC1.1 Agreement drafted by IUCN, SSC, Cat and canid specialists groups based on this strategic plan	Regional Committee	6 months		
	PC1.2 Agreement to be presented to National Agencies who will then present to Ministers	Regional Committee	6 months		
	PC1.3 Organize a regional state meeting where the agreements will be formally signed	Regional Committee	World Cup		
PC2 Encourage the signing of outstanding and future transboundary agreements that would benefit the conservation of cheetah and wild dog	PC2.1 Identify current and potential transboundary agreements	National Coordinator	Ongoing		
	PC2.2 Lobby for agreements to be signed by mobilizing stakeholders and relevant government bodies	National Coordinator / ZAWA / National Committee / relevant partner conservation organizations	Ongoing		
PC3 Encourage Local and National Authorities to collaborate in governance promoting the conservation of cheetah and wild dog	PC3.1 Identify appropriate Traditional, District, Provincial and National Authorities and other relevant institution in cheetah and wild dog areas	National Coordinator	1 year		
	PC3.2 Lobby and encourage said authorities and institutions to engage in development of agreements promoting conservation of cheetah and wild dog	National Coordinator / ZAWA / National Committee / relevant partner conservation organizations	Ongoing		

Theme: Implementation**Objective:** Implement the national action plan for the conservation of cheetah and wild dog in Zambia

Target	Activity	Responsible parties	Time Frame	Resources required	Verifiable indicators
I1: Endorse and implement the national conservation action plan over ten years	I1.1 Edit, review and publish national workshop report	ZAWA, Regional coordinator	6 months	Printing costs	Report published
	I1.2 Endorse national conservation action plan	ZAWA	6 months		NAP endorsed
	I1.3 Disseminate national conservation action plan to stakeholders in Zambia	ZAWA National Coordinator	1 year	Postage, printing costs	All relevant stakeholders receive reports
	I1.4 Identify and appoint a national co-ordinator for the implementation of the plan	ZAWA (with assistance from all stakeholders)	Immediately	Salary, vehicle, computer, office	National coordinator appointed