# PART I SUMMARY

# PART I SUMMARY

# Introduction

This document is a compilation of the detailed country reviews of rhino conservation in SADC rhino range states, carried out during the second semester of the SADC Regional Programme for Rhino Conservation (24<sup>th</sup> March to 23<sup>rd</sup> September, 2000). This was an important information-gathering exercise in preparation for the process of identification and selection of projects to be funded and implemented by the SADC consortium and the rhino range states over the remaining semesters of the programme.

The country reviews were written by representatives of SADC consortium members and external rhino consultants, and edited and compiled by Rob Brett (Programme Co-ordinator) and Raoul du Toit (WWF SARPO). With the exception of Angola, the reviews were written following information-gathering visits to the rhino range state (or province of the range state) in question. The reviews share the same format: a structured list of information required, drawn up in advance as terms of reference for the reviews (Task 1.2 - 1.1 of semester 2), and presented below.

This is followed by a summary table containing the main points in brief recorded from each range state during the review process, under each of the headings of the terms of reference for the reviews. This allows comparison of factors relevant to rhino conservation in each range state. These include:

- Unique or interesting features of legislation, wildlife policy or resources of particular range states, including factors that enable, or are catalysts for a successful approach or model for rhino conservation.
- Activities or structures that are clearly needed for individual range states to develop their rhino conservation programmes effectively, particular if input from the SADC region (through the SADC Rhino Programme) can assist.

Finally, a brief overview of the results of the process is presented in the form of salient issues or points of regional interest from the review of each country. This section highlights the regional rhino conservation linkages and co-operation already in progress, which may serve as models for similar linkages between SADC rhino range states in future.

# Terms of Reference for Review of Rhino Range States

## 1 MECHANISMS FOR PLANNING AND COORDINATING NATIONAL RHINO CONSERVATION EFFORTS

- 1.1 Establish whether a national rhino strategy (outline of rhino management principles and policies) has been developed; if so, when, by whom, with what level of official authorization/endorsement, etc. Establish whether this is still current (i.e. being implemented) or in need of updating.
- 1.2 Establish whether this documentation incorporates or is separately reinforced by an action plan that specifies required rhino conservation activities with timings, responsibilities, allocation of resources, etc. Establish whether this action plan is still current or in need of updating, what the updating process will be, and whether there are impediments to this updating process.
- 1.3 Describe the composition and functioning of any formalized planning structures (committees, etc., at national or local level) that have been established to coordinate rhino conservation.
- 1.4 Specify any individual(s) who act as co-ordinator(s) for rhino conservation and/or act as focal point(s) for the SADC Rhino Programme, RMG, etc.
- 1.5 Establish whether there are any possibilities for the SADC Rhino Programme to facilitate the development or updating of the national rhino strategy and/or action plan (e.g. by mobilizing appropriate expertise).
- 1.6 Obtain copies of any national strategy, action plan or other relevant documentation.

# 2 EXISTING MECHANISMS FOR COLLABORATION WITH OTHER RANGE STATES (Excluding SADC Rhino Programme).

- 2.1 Establish whether the range state is coordinating its rhino conservation activities in any concerted way with any other range state(s). Clarify whether any such coordination arrangements are formalized through high-level bilateral agreement or are more informal. Outline the background to, achievements to date from, and anticipated evolution of such arrangements.
- 2.2 Establish whether there were any previous commitments or interactions between the range state and any other(s), such as commitments to transfer rhinos or to undertake joint law-enforcement, that have been curtailed or have lapsed; comment on apparent reasons for any inertia or reduction in cooperation (note: if comments on this topic are diplomatically sensitive they should not be included in the report but should instead be given to the Programme Co-ordinator in confidence).

# 3 RHINO POPULATION STATUS

- 3.1 Provide current summary statistics on rhino numbers, distribution and population trends.
- 3.2 Outline the current approaches to and levels of detail of rhino monitoring, population status reporting, rhino poaching incidents, and penalization of people who are arrested for such incidents.
- 3.3 Specify any requirements for surveys and/or demographic monitoring to improve information on the status of rhino populations, where lack of such information is a definite constraint to the development and implementation of a national rhino conservation strategy and action plan.

# 4 MANPOWER AND OTHER RESOURCES FOR RHINO CONSERVATION

- 4.1 For each rhino area, or at least for major or representative rhino areas, obtain summary statistics on anti-poaching resources (scouts per km<sup>2</sup>, recurrent annual expenditure excluding salaries per km<sup>2</sup>, four-wheel-drive vehicles per km<sup>2</sup>, salary levels for scouts and junior officers).
- 4.2 Ascertain the availability of expertise for specialized aspects of rhino management, notably for rhino tracking, capture, veterinary work, ecological evaluations and demographic monitoring.
- 4.3 Ascertain the availability of specialized equipment for rhino management, notably for rhino capture/translocation (recovery trucks, helicopters, crates, etc.).

# 5 PARTICIPATION OF NON-STATE AGENCIES IN RHINO CONSERVATION

- 5.1 Summarize any existing or proposed initiatives for direct community involvement in rhino conservation.
- 5.2 Outline the involvement of local and international NGOs in rhino conservation, specifying the general thrust of such involvement with indications of the levels of activity and financial contribution of each NGO.
- 5.3 Summarize the direct involvement of the private sector in rhino conservation. If there are any positive or negative aspects of this involvement that warrant comment, provide details.

# 6 PROPOSED PROJECTS

6.1 Outline concepts for projects that the range state feels meet the criteria for implementation within the SADC rhino programme, either within the country itself or as a regional project. Indicate lead agency, collaborative agencies (including potential funding agencies), budget levels, timetabling. If there are any additional potential projects that the reviewer has identified, these should also be outlined, but making it clear which concepts are suggested by the rhino management authority and which are suggested by other individuals or agencies.

# 7 NATIONAL LEGISLATION AND POLICIES OF RELEVANCE TO RHINO CONSERVATION

7.1 Provide an overview of legislation and policies relating to penalties for poaching rhinos, possession of rhino horns, hunting of rhinos, live sales of rhinos, etc. Draw particular attention to aspects of national law or policy that either preclude or reinforce models for rhino conservation such as community-based rhino projects or private ownership or custodianship options. Obtain copies of legislation, documented policies.

# 8 DATA SOURCES

- 8.1 List names, addresses, titles, and affiliations of all informants/interviewees.
- 8.2 Compile a list of the relevant reports and publications. Provide the Programme Co-ordinator with as much of this information as possible.

# 9 TRADE AND IMPORT/EXPORT OF LIVE RHINOS

9.1 Detail CITES management authority/authorities and veterinary requirements for import and export of live animals. List past translocations of rhinos into and out of the range state, sources and destinations, and transaction type (donation, sale, deposit, etc). This must include past translocations between SADC range states that have given rise to, or have augmented existing populations.

## **10 HORN STOCKS**

- 10.1 Describe mechanisms within the range state and management authorities for control, storage and identification of horn stocks.
- 10.2 Indicate whether there has been official involvement of the range state in the AfRSG rhino horn fingerprinting project and what the attitudes are towards providing further samples for this project.

RANGE STATE	ANGOLA	BOTSWANA	MALAWI			SOUTH AFRICA	SWAZILAND	TANZANIA	ZAMBIA	ZIMBABWE
				PLANNIN				_		
Rhino Management Authority	Instituto de Desenvolvimento Elorestal (IDE)	Department of Wildlife and National Parks	Department of National Parks	Direcção Nacional de Florestas e	Ministry of Environment and	SANP; KZNNCS, NWPTB and six	Big Game Parks. Under Office of the King of Swaziland	Wildlife Division (only authority for	Zambia Wildlite	Department of National Parks
	of	¥ 7	(DNPW). Under Ministry of Tourism	<i>Fauna Bravia</i> (DNFFB). Under Ministry of		authorities. Department of Environmental	_	- n ·		Management (DNPWLM). Under Ministry of
				(		EAT)		Tourism		Tourism
Rhino Conservation	None.	Black and White rhino (1991-99):	None.	None.	Black and White rhino (1997):	ġ	None.	(1998): a revision 1992 strategy for		Black Rhino Policy and
Strategy (Year)		Old draft, in need			ated 989.	SANP has its own conservation plan		of the first national plan of		Management Plan (1997): endorsed.
		endorsement				for black rhino.		ill not	5	
						(2000): endorsed.		endorsed	now out of date.	
Action Planning None	•		Formal planning	None.		Action planning by	Il action	hough		Stalled. No
		ŋ	for Liwonde sanctuary only		annual action	individual authorities		there are indicators/timinos		implementation of past annual plans
		strategy			by RAC			in the 1998 plan		
Co-orginating Committees	None.	Committee (RMG) specified	None.	None.	Committee	KMG, RESG. KZNW has a	RMG, RESG	Conservation	and Law	Yes, and met in November 200 for
		in 1991 strategy,				Rhino Security		б		the first time since
		met.				Committee.		Committees (1	responsible in	RMG
			1					).		!
for	Nkosi Luta Kingengo, IDF	Moremi Tjibae, DWNP	Dr Roy Bhima, DNPW		Rudi Loutit, MET	Dr Mike Knight, SANP	Ted Reilly, BGP	Matthew Maige, TWD	e Imba,	Florence Msipa, DNPWLM
0,000,000							0TATE0			
				Z	WITH OTHER SADC RANGE		STATES			
	NP and				ally	Malawi (DNPW):	_		None, except for	None, except for
with other	Foundation, with	ties, provision of	Liwonde NP,	Gaza-Kruger-	SANP, including	(DWNP): NWPTB	ŭ, –	translocation of	with Zimbabwean contacts with	contacts with
range	ä	Ť		.ea		••		΄Ξ	authorities. Past	Zambian
States	(INVVPID). Kissama	white rhinos were	fence and tourist	and white rhinos.	and exchanges	security comms	introduction from	(1 rhino) SANP	NPB in early	counterparts.
	n has				ö	with Kruger NP.		-	1960s	
	d that		provision and			Tanzania (WD)		veterinary and	(translocation of	
	interested in	with recovery of	transport of a	which parts of		SANP Zimhahwe	rhino founders	from SANP	wille millos)	
	ite		evel	Coutada 16		(Malilangwe): sale				
			agreement, mainly Director	could form larger		of D.b.minor.	Zimbabwe.			
			level comms.							
Commitments to other SADC	No information available.	2 black rhinos from Namibia	2 black rhinos from SANP. 50	None, beyond existina TFCA	Presidential commitment of 2	2 black rhinos to Liwonde from	None. Delay in Lusaka task force	50 Niassa wildebeest for	None.	None
range states		(1990).				South Africa		Malawi (agreed		
			Wildebeest from Tanzania.		Botswana (1990).	(SANP).	enforcement.	by presidents), postponed 2001		
	_						_	-		

RANGE STATE	ANGOLA	BOTSWANA	MALAWI	Mozambique	NAMIBIA	SOUTH AFRICA	SWAZILAND	TANZANIA	ZAMBIA	ZIMBABWE
				INO POPULAT	ION STATUS	RHINO POPULATION STATUS AND MONITORING	RING			
(AfRSG 2000)	(last reports 1989-1990).	(last reports 1989-1990).	(Liwonde NP sanctuary)	(isolated reports)	Confidential pops	D.b.bicornis: 42	Confidential pops	(min. estimate Selous GR)	(isolated report of 1 rhino in 2000)	
	C.s.simum: extinct (twice)	C.s.simum: 30	:	C.s.simum: extinct (twice)	C.s.simum: 163 Confidential pops	C.s.simum: 9,754	C.s.simum: 50 Confidential pops		C.s.simum: 5 (not indiaenous?)	C.s.simum: 208
Monitoring and	No official	Adequate in	Liwonde	no	Adequate for	Adequate. Aerial	Adequate.	Ground surveys	Individual ID,	Adequate for
reporting			sanctuary:	monitoring	conservative	surveys, individual	Individual ID, black	and patrols with	white rhinos at	conservative
	s on Angola	ual	Individual ID,	activities.	metapopulation	ID, ear-notching.	rhinos sighted	-	Mosi-oa-Tunya	metapopulation
	independence,	reports of outliers	armed scouts	of rhinos from	Individual ID,	reporting to RMG.	written status	Kidai area:	11 km <sup>2</sup> fenced	though
	ž		and fence staff.	ers	Waterhole		reports produced	-	area, and	inadequate
	indicated 30	R and	Patrol reports		surveys, ear-		by BGP.	occasional	monitored daily.	monitoring of IPZs
	black rhinos in Iona NP in 1971	Nata area (presumed to be	compiled. Initial problems with	However, some recent arrests of	notching, radio- telemetry			sightings. Lukuliro: survevs		in recent years. Individual ID. ear-
			surrounding	poachers made	Databases			including dung		notching, semi-
		rom	s and		(National and			DNA (1997-98),		intensive
		Zimbabwe)	fence destruction	recovered	Kunene) and			with only one		monitoring, radio-
					also to RMG					recording
Requirements	No recent reports	Inadequate	No requirements	Surveys and	Better information		No population	Urgent need for	Ground surveys	Routine and
	ē	ithin	ed for	all	needed on black		Assistance	surveys and	in 2-3 remote	approach to
	SULVEN	including outliers	monitoring and	aleas witti plausible reports	in Ftosha NP		review of rhino C.C.	includina	investigate lack	status reporting
			÷		and Kunene.		estimates and	specialised		Ear-notching.
		required in			Limiting factor of		browser stocking	tracking, patrol	Mosi-oa-Tunya	
				rhinos required.	new populations.			dung DNA ID.	white minos.	
			MANPOV	MANPOWER AND RESOURCES FOR	OURCES FOR	<b>RHINO C</b>	ONSERVATION			
Scout density	nation	Fenced areas:	P: 1	er 22-	Confidential.	NWPTB mean:	BGP:	Selous GR	ZAWA (Mosi-oa-	DNPWLM
	avallable.		per zu kin	400 Km . Coutada 16:		KZNW mean:	i per 5-14 km	(50,240 km <sup>2</sup> ): 1	2.75 km <sup>2</sup> for the	(indicative): 1 per 100 km <sup>2</sup> . Lowveld
		1 per 250 km <sup>2</sup>		1 per 1000 km <sup>2</sup>		1 per 8.8 km <sup>2</sup>			11 km <sup>2</sup> fenced	conservancies: 1
									km <sup>2</sup> for the NP	-
Vehicle density	No information	on not	0,	No information	Confidential.	NWPTB mean:	BGP:			
	available.	available.	attached to sanctuary.	available.		1 per 240 km <sup>-</sup> KZNW mean: 1 per 73 km <sup>2</sup>	1 per 5-30 km <sup>-</sup> (including tourist patrol vehicles)	sectors in Selous GR	4WD vehicle for the 11 km <sup>2</sup> fenced area.	(indicative): 1 per 500 km <sup>2</sup>
Operating	No information		Liwonde	No information	Etosha NP:	NWPTB mean:		Selous GR	Information not	Lowveld
budget (ŬS\$)			sanctuary (38 km²): \$16 per km²		\$11 per km <sup>2</sup>	\$238 per km <sup>2</sup> KZNW mean: \$232 per km <sup>2</sup>		(50,240 km <sup>2</sup> ): \$30 per km <sup>2</sup>	available from ZAWA.	conservancies (incremental cost of rhinos): \$31-57 per km <sup>2</sup>
Salaries (\$ p.a.)	IDF	DWNP	DNPW	DNFFB	MET	NWPTB	BGP	WD	ZAWA (pending)	DNPWLM
Warden	N/a	N/a	\$578 – \$698	N/a	N/a	\$15,963	Confidential	\$1,355	\$8, 182	\$5,412
Ranger	N/a	\$3,739 - \$4,498	\$340 - \$574	N/a	\$2,903 - \$3,903	\$6,665	Confidential	626\$ 626\$	\$2,727	\$3,528 - \$3,996
Scout	N/a	\$3,120 - \$3,710	\$225 - \$299	\$540 - \$600	\$1,720 - \$2,473	\$5,655	Confidential	\$828	\$1,636	\$1,056 - \$1,176

NGOS	Community	Equipment	Expertise	RANGE STATE
Kussama Foundation, devoted to Quiçama NP, could fund introduction of white rhinos to Angola (for the second time)	None.	No information available.	Pre limit elep Qui cap prot	ANGOLA
Knama Knino Sanctuary Trust, and Mokolodi Nature Foundation, mainly supported by local donors. by local donors.	Khama RS was set up as community project, with village headmen as trustees, but limited revenue to share. Mokolodi NR works as educational establishment. Otherwise limited or non-existent.	Adequate aircraft in DWNP, but inadequate or unserviceable capture vehicles or equipment. Good bomas at Khama RS	Very limited or inadequate (rhino monitoring, veterinary). Private Private vet/capture, and ecological ecological evaluation expertise available.	Botswana
of Friends has supported the Liwonde project from the start, including construction and recurrent costs. Funds mostly raised locally (\$25,000 pa). Also FZS, WWF- US, WSM.	No direct community involvements. Collaborative approach at Liwonde through advisory committee, with community reps. Ultimate intention to release rhinos into park, with cooperation of community a necessity.		nde ion at ure ure nd	MALAWI
involved in 1998 rhino surveys in Tete province, currently advising on planning in Niassa GR. USF&W, Tusk Trust, etc have supported SGDRN, including funding law enforcement.	ichatu, iliassa ent ent thino t. GKG t. GKG liires liires liires liires d on	ICIPATIC	8	MOZAMBIQUE
(Kunene), WWF (Etosha, monitoring), AWF, SRI (Waterberg). Most areas still entirely funded by MET.	Long-standing and successful community participation in conservation of Kunene population (communal land), dependent on NGO funding & employment (SRT/IRDNC). Several conservancies in development across range.		חרו III רריני איז איז איז איז איז איז איז איז איז איז	NAMIBIA
Willior donorBGPfunding forsupportedmonitoring andnumeroustranslocation inand internsNWP. WWFdonors, inprovides majorWWF, EUprojects in KrugerTrust andNP and KZNWlocal compreserves. USF &W(e.g. SuziRTCF supportedthat). Donnumerous projectssupport isencourageBGP.	NWP: none direct, but active liaison, economic, employment and entrepreneurial opportunities. KZNW: visitors charged community levy paid to traditional authorities. Local boards set up for many rhino reserves. SANP: unknown.	Adequate. Lin NWPTB: has vel bomas, but aircraft & capture ava equipment res contracted un CONSERVATION	Adequate and extensive. NWPTB: rhino monitoring, ecological evaluations in house. Vets and rhino capture contracted.	SOUTH AFRICA
supported by numerous local and international donors, including WWF, EU, GoUK Rhino Rescue Trust and many local companies (e.g. Suzi candles that). Donor support is encouraged by BGP.		Limited capture vehicles and equipment available. Other resources unknown.	BGP uses rhino vets and capture units from RSA. All eight appointed game rangers are able to handle drugs. Assistance with ecological evaluations requested.	SWAZILAND
Project, with EU funds (\$550,000 over 2 years) through GTZ, also supports Selous GR. WWF support for E sector Selous (\$200,000 p.a.), incl. salaries. SRI supports Sand Rivers project (ranger post).	No formal schemes linked to rhinos, though some informer rewards given. More general community Selous GR, but schemes in Selous GR, but one major hostile community of traditional poachers. NCAA has community involvement in management.	One 4WD Merc truck available for rhino moves. NCAA has two crates. Previous donated rhino truck plus crane: location unclear.	Limited (monitoring) through Rhino Co-ordinator. TANAPA vet has some rhino experience, but external vet input required. Also for ecological evaluations.	TANZANIA
Trust (local) is the only NGO directly involved with rhino conservation, although FZS is seeking to support rhinos in N Luangwa NP. International NGOs: NORAD, FZS, WECSZ, CLZ, ECZ	No formal community involvement in rhino conservation. The present ADMADE programme operates outside Protected Areas, and any rhino introduction would likely to be into National Parks.	None in ZAWA.	Limited or non- existent. There are posts for two vets in the new ZAWA structure, and 1 appointed. Research division has ecologists for monitoring	ZAMBIA
Beit Trust (Conservancies, Vet Services). Malilangwe Trust. SRI, IRF (Vet, Capture & Management), Marwell Trust (captive breeding, re-intro research), Zambezi Society (Matusadona IPZ).	No rhinos left alive on plans for stake-holding in the white rhino population at the Save Valley Conservancy.	Adequate. Limited DNPWLM vehicles, equipment and arcraft, but available from NGOs and private contract.	Adequate (tracking, veterinary, capture, ecological monitoring)	ZIMBABWE

Penalties: poaching of rhinos, and illegal possession of rhino horn rhino horn	Protected status of rhinos	Private Sector	RANGE STATE
available.	Rhino are listed as protected species under the <i>Regulamento</i> <i>de Caça</i> (1955).	None.	ANGOLA
Fine of \$20,000 Illegal killin imprisonment. or illegal e: These penalties or import o are also horn: 5 yea prescribed for failing to hand in horns, or failing to MK10,000 report (\$125). Th circumstances of penalties u a rhino killing. to be incre to 10 years imprisonm and fine of 50,000 (\$6	Rhinos (any colour) are listed as protected game animals (Wildlife Conservation and National Parks Act 1992, 6 <sup>th</sup> schedule)	Botswana's present rhino conservation effort almost land, (Khama RS and Mokolodi NR) with only one animal controlled by DWNP (Gaborone GR). Although generally positive, one possible negative aspect is the reduced incentive for the DWNP to manage rhinos.	BOTSWANA
Illegal Killing of Irhinos, or trade in or illegal export or import of rhino horn: 5 years imprisonment and fine of MK10,000 (\$125). These penalties under new policy likely to be increased to 10 years imprisonment and fine of MK 50,000 (\$625)	Legislation is National Parks and Wildlife (No 11 of 1992). Rhinos are listed annually as protected species, e.g. the NP&W Protected Species Order of 1994	Private sector involvement very important, including J & B Circle funding. Private sector can also be involved through system of honorary rangers within DNPW.	MALAWI
Disturbing wildlife is an infraction: \$120-6,000 fine, but increased by factor of 10 if it involves species threatened with extinction (max fine of \$60,000). Crime & Crime & imprisonment only specified if failure to pay. No provision for rhino trafficking offences.	Rhinos are listed as protected species under still-used 1955 legislation: Caça Legislação, with list updated in Modalidades de Caça 1978. New legislation in preparation.	Z	Mozambique
2,500 (\$148-320) or 2-6 years imprisonment specified for hunting without permit (1975). Fine of R200,000 (\$25,650) and/or 20 years for possession, utilisation, export, import, trade or transportation in hino horn (1990 amendment).		· · · ·	NAMIBIA
<ul> <li>NVMP: White rhino:</li> <li>\$6,400 fine or 5 years imprisonment.</li> <li>Black rhino:</li> <li>\$12,800 fine or 10 years.</li> <li>Subsequent convictions: no option of fine. NP Act: white and black rhino offences are not separated.</li> <li>\$3,800-\$12,800 fine or minimum of a yrs.</li> </ul>	be by by sfor ite alties	Very extensive private ownership of white rhinos, with total numbers now difficult to determine. Black privately owned, sold groups of 6 by KZNW hitherto. by KZNW hitherto. by KZNW hitherto. Dy KZNW hitherto. by KZNW hitherto. Dy KZNW hitherto. D	SOUTH AFRICA
5-15 years imprisonment, without option of fine, specified for hunting rhinos without a permit. 7- 17 years imprisonment, without option of fine, for trafficking. Offender also required to pay replacement value of rhino, failing which 2-6 further yrs imprisonment.	Black and White rhinos are 'specially protected game', under the Game (Amendment) Act of 1991 (1 <sup>st</sup> schedule) and Game (Amendment) Order 12 of 1993.		SW AZILAND
Poaching: 10-30 years imprisonment, or fine of 10 times the sport-hunting value of the rhino. The Wildlife Conservation (Dealings in Trophies) Regs 1974 specify penalties for illegal trading in CITES animals, including rhinos.	Black rhinos are protected as National Game under the Wildlife Conservation Act 1974, National Game Order (274) of 1974, and Economic & Organised Crime Act (13) of 1984	No involvement. All <i>D.b. minor</i> in Selous GR. No private game ranches. ranches.	TANZANIA
Poaching: 5-20 imprisonment, no option of fine (1 <sup>st</sup> offence). 7-25 years, no option of fine (2 <sup>nd</sup> offence). Horn trafficking: 7-20 years imprisonment, no option of fine (1 <sup>st</sup> offence). 10-25 years, no option of fine (2 <sup>nd</sup> offence)	Rhinos are specified as protected animals under the Zambia Wildlife Act (No 12) of 1998. There is also a Policy for NPs and Wildlife in Zambia (1998)	Involvement only in the form of honorary rangers. No other information available. available.	ZAMBIA
Mandatory years imprisonment (1 <sup>st</sup> conviction) and 7- 15 years (2 <sup>nd</sup> conviction); and/or maximum fine of Z\$15,000 (with devaluation of Z\$, fine currently US\$283, compared with US\$5,700 in 1990)	Black and White rhinos are 'specially protected species' under the Parks and Wildlife Act of 1975 (Chapter 20:14) amended 1990. Statutory instrument 362 of 1990	70 rhi scu: scu: scu: scu: scu: scu: scu: scu:	ZIMBABWE

Custodianship No information available.	Live Sales of No information available.	RANGE STATE         ANGOLA           Safari Hunting         Safari hunting           of rhinos         suspended since           1976.         1976.
nation White rhinos recovered from Moremi/Chobe in 1994-96 are held in Khama RS under a clear custodianship arrangement (by MoU between KRS and GoB). Rights of offspring of GoB rhinos and those purchased and imported from outside (e.g.	nation No possession or keeping of rhinos permitted without a permit from the Director of Wildlife. White rhinos have been purchased by from South Africa by Mokolodi NR and Tholo Ranch.	OLA BOTSWANA nting All hunting or ed since capture prohibited, except if permit is issued by the Director of Wildlife 'in the interests of conservation'
No provision for custodianship of wildlife species under legislation.	<ul> <li>Trade in protected species prohibited, except where animal is lawfully acquired under licence by a person in possession of valid certificate of ownership.</li> </ul>	MALAWI Hunting of protected including rhinos, of prohibited.
No provision for Fr rhinos under provision for provision for rhinos or large mammals as flagship species flagship species under Biodiversity Strategy and Action Plan (1987).	Live sales of rhinos presumed y to be permitted p under conditions ri of ownership, would have to be in re-introduced to a game farm or concession area. ri concession area.	MozamBiQUE Hunting of rhinos s is prohibited by w the 1955 hunting r law. 1 h
Framework N document for involvement details Namibia's custodianship scheme, with MoU signed between land owner and MET.	Live sales of L white rhinos are a permitted. Black a thinos belonging ir to the state can the be sold to private a exported from d Namibia. White Namibia. White Preez Auctions August 2000): (1 \$21,200 each. the \$21,200 each. the solution of the solution of of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution	NAMIBIA         Safari hunting of N           Safari hunting of regulated under         h           regulated under         rt           1975 legislation.         h           White rhinos can         be hunted and           be hunted and         trophies exported           to several         countries, and           countries, and         non-lethal           hunted salso         permissible           under certain         conditions.
available.	Live sales of black and white rhinos are permitted internally. White rhinos can be sold i abroad to approved destinations. White rhino prices (KZNW 2000): \$29,200 each (mean). Black rhino (KZNW 2000): \$54,750 each.	SOUTH AFRICA NWP: Safari thunting of white rhinos permitted.
Effectively, BGP are managing Swaziland's rhino on behalf of the King and Royal Warrant. The King may gazette areas for protection of game, including rhinos.	Information not provided. No clause relating to live sales of rthinos in 1990 and 1993 legislation. legislation.	SWAZILAND Safari hunting of rhinos allowed by special permit. Trophies can be exported and imported with permit.
No provision for custodianship on the existing legislation.	Sale of 'government trophy' is illegal, this including CITES animals, and consequently black rhinos.	TANZANIA National Game animals (including black rhinos) are protected and hunting is prohibited, except under President's licence. Special licence. Special licence apply to the registration and marking of rhino horn.
No provision for custodianship of rhinos under legislation, although the Wildlife Policy 1998 (section 2.7.1) provide for establishment of licensed game ranches, and a contract agreement with ZAWA for such establishment(s).	Certificate of ownership for protected animals may be issued by the Director of Wildlife. Written permission of Director is required for all live sales. Trade and movement are regulated by the Minister of Tourism.	ZAMBIA Safari hunting of rhinos prohibited, i except under special licence.
Black rhinos allocated to private landowners under custodianship scheme, although inconsistency exists between landowners over issue of permits.	Live sales of white rhinos are allowed, on issue of permit. Imports of white rhinos to Zimbabwe have all been through private purchase. In 1992, Black rhinos were bartered for a helicopter and running costs with USA and Australian zoos.	<b>ZIMBABWE</b> Safari hunting of white rhinos allowed, on issue of permit. Any horns recovered are state trophies, but precedent for issue of permits for possession of horns from owned rhinos.

Past translocations: Imports	Past translocations: Exports	Licences required	CITES authority	Ownership	RANGE STATE
White rhino (1968): 10 from Natal Parks Board to Quiçama NP (all died).	None.	No information available.	Instituto de Desenvolvimento Florestal (IDF)	available.	ANGOLA
White rhino (1967-1980): 95 (1989-1999): 19	None.	CITES import and export permits. veterinary permits also required for import, also permit to capture in Botswana. Receiving properties are approved by DWNP	Department of Wildlife and National Parks	ลี ฉี เ	Botswana
Black rhino (1993): 2 (1998): 2, from Kruger NP to Liwonde NP.	None.	Import and Export licences from CITES authority. Vet requirements: certification from exporting country (e.g. RSA), not from an area with FMD or Anthrax, quarantine for 21 days, inspection	Director of National Parks and Wildlife	Ownership of all wild animals, existing in their wild habitat, is vested in the President. Act makes no specific reference to wildlife on private land or private ownership.	MALAWI
White rhino (1969): 83. 71 to Maputo GR, 12 to Gorongoza (all died).	None.	Import and Export licences from CITES authority, all through National Director. Licences also required from the National Directorate of Animal Production (Vet Services)	<b>TRADE AND</b> Direcção Nacional de Florestas e Florestas e Fauna Bravia	Game can be privately owned, if re-introduced to game farm or concession area (1999 framework law). Otherwise all game is owned by the Government of Mozambique.	Mozambique
White rhino, include (1995): 10 to Etosha NP from Kruger NP	Black rhino ( <i>D.b. bicornis</i> , 1980-95): 9 (Tswalu, Lisbon zoo) & >3 zoo) & >3 (SANP)	Import and Export licences from CITES authority, MET. Permit required from Veterinary services. services.	AND IMPORT/EXPORT IN RH Ministry of National CITE Environment and authority in Tourism Gauteng	Ownership of white rhinos within Namibia provided for in legislation, although black rhinos can only be sold for export.	NAMIBIA
Black rhino (1994- 1999): 18 White rhino (1994- 1999): 2	Black rhino (1994- 1999): 51 White rhino (1994- 1999): 206. All C.s. <i>simum</i> worldwide descended from translocated NPB founder stock.	Import and Export licences from CITES authority. Veterinary licensing requirements not known.	<b>DRT IN RHINOS</b> National CITES T authority in Gauteng	Black and white rhinos can be privately owned.	SOUTH AFRICA
Black rhino (1987- 1999): 12 (6 from - Zimbabwe, 6 from KZNW/RSA)	1994- None. 1994- 7 7 0m 0m NPB	Import and Export licences from CITES authority. No other information available. available.	S The Kingdom of Swaziland's Big Game Parks	Information not provided. No clause relating to ownership of rhinos in 1990 and 1993 legislation.	SW AZILAND
Only imports White rhino have been of (1960s): 5 to <i>D.b. michaeli</i> from Mosi-oa-Tunya SANP (6 in 1997- (all died) 98) White rhino (1994): 6	Only recent export has been one <i>D.b.michaeli</i> to SANP (1997- 98) 98)	Import and Export licences from CITES authority. Certificate of good heath from a Veterinary Officer required for export. Veterinary requirements for import are not clear.	The Tanzania Wildlife Division	rhii fior fiirol fior fior fior fior fior fior fior fior	TANZANIA
White rhino (1960s): 5 to Mosi-oa-Tunya (all died) White rhino (1994): 6	Zone.	Import and Export licences from CITES authority. Veterinary requirements not certain, but quarantine and inspection certainly required.	Zambia Wildlife Authority	Ownership of wildlife is vested with the President. However, ownership is provided for those licensed for legal capture. A landowner has rights of use of animals in his land. Provision for ownership of rhinos needs to be clarified in policy document	ZAMBIA
Black rhino (1962-1998): 28 White rhino (1962-1998): 169	Black rhino (1964-1992): 54 White rhino (1962-1998): 5?	In addition to CITES permits, an import/export veterinary protocol from wildlife unit, DVS is followed, including removal of parasites. Internal transfers of rhinos require vet movement permit.	Department of National Parks and Wildlife Management	Rhinos can be owned by private individuals who are appropriately licensed, but demonstrated control of the animal on his/her land required. No expectation ownership of black rhinos under custodianship.	ZIMBABWE

RANGE STATE	ANGOLA	BOTSWANA	MALAWI	Mozambique	NAMIBIA	SOUTH AFRICA	SWAZILAND	Tanzania	ZAMBIA	ZIMBABWE
				RHI	RHINO HORN STOCKS	OCKS				
Stock	Unknown.	121 horns (ca. No st 210 kg): October horn. 2000.	No stock of rhino horn.	1 pair, seized in Unknown 2000 (originating quantity, from Coutada 16, complete or Kruger NP) to TRAFF to TRAFF (2000)	Unknown quantity, complete register provided to TRAFFIC (2000)	Unknown quantity. Unknown quantity	Unknown quantity.	Unknown quantity.	24 full horns (total 17 kg) and 6 pieces (2.5 kg).	Unknown quantity.
Control	No information available.	Horns stored and Horn (would be secured in stored in main DWNP strong ivory storeroom room/ivory store. in Liongwe, with Register of all recording using horns CITES format. maintained, also Horns tagged in spreadsheet and numbered table. Horns marked with permanent black marker only.	Horn (would be) stored in main ivory storeroom in Lilongwe, with recording using CITES format. Horns tagged and numbered for identification.	Horn is stored in Horns controll the Maputo places (MET (believed to be strongroom ar on Floor 16 of Depart of ank strongroom ar on Stored at with permanen provincial level. Horn horns marked also stored at with permanen provincial level. transponders. horns provided by central government. No (1999) horn information on followed.	Horns controlled Horns are and stored in two auditable item places (MET NWPTB and strongroom and KZNW. NWP: bank strongroom Secured in se in Windhoek). All vault, and horns marked implanted with with permanent microchip marker, but no transponders. Urgent need t MET Policy on control of rhino (1999) horn and recording horn stockpile followed.	Horns controlled Horns are and stored in two auditable item for places (MET NWPTB and strongroom and KZNW. NWP: bank strongroom Secured in secret in Windhoek). All vault, and horns marked implanted with microchip marker, but no transponders. transponders. MET Policy on and recording of (1999) horn horn stockpiles on followed.	Recovered horns all Horns recovered secured and by the Wildlife controlled by BGP. Division are No other information Salaam. Horns are marked with a number, showing district of origin and yea of recovery.		into on at into on at into on at into on into on ource	Effective control of horn stock, with TRAFFIC, using database and field registers. All horns stored in DNPWLM strongroom. Marked with indelible pen.
Horn Fingerprinting project involvement	No involvement in the FP project.	No samples provided to project to date. Considerable benefit to SADC region would follow from this provision.	No involvement, No involv as no horn to date, I stocks. Samples in stock taken from horns recently of Liwonde sanctuary offspring could be interest.	No involvement to date, no horn in stock until recently.	Extensive involvement in FP project, with samples supplied from all representative areas, showing valuable results	Many RSA conservation agencies and private reserves have participated. Strong support for methods.	Samples were provided to the FP project, and BGP have been very supportive. More black rhino samples required.	While support had been obtained from past Directors of Wildlife, no samples have been obtained.	No involvement No cooperation to date. FP project, but agreement that horn samples c be provided (October 2000)	No cooperation with first phase of FP project, but agreement that horn samples can be provided (October 2000)

# Salient Points and Issues

# SOUTH AFRICA

# A North West Parks & Tourism Board

The linkage between NWPTB and its counterpart agency in Botswana is an example of the kind of intraregional cooperation that the SADC Rhino Conservation Programme should encourage. This cooperation has led to the donation of eight white rhinos to Botswana, in two batches, but it is important to note that this was not merely a grand political gesture that ignored conservation realities; the donation of the second batch was dependent upon the demonstration of sound conservation measures for the first batch.

Another model for rhino conservation is shown in the way that NWPTB interacts with and depends upon a wide range of stakeholders and external agencies to get rhino conservation needs attended to. There is a tendency for African conservation departments to feel that it is somehow improper to get vital rhino conservation functions undertaken by non-governmental agencies or individuals, but because the departments do not have the resources or the expertise to do all these tasks themselves, they often do not get done at all. NWPTB obviously remains in the driving seat for rhino conservation but has developed a support network involving volunteers, honorary officers, private lodges, private capture units, private veterinarians, etc. The development of a trust fund to sustainably meet the monitoring costs in Pilanesberg is one of the progressive outcomes of this support network. Contracting private operators for certain jobs (including fence maintenance and rhino captures) shows a businesslike approach that is likely to entail far lower costs than if NWPTB tried to do everything inhouse.

The concept of an "audit" of wildlife, as is undertaken annually for the wildlife assets that NWPTB is responsible for, is another progressive, businesslike approach that could be followed elsewhere in the region. This approach helps to ensure accountability on the part of the rhino management agency. Such accountability might well include critical assessments of the extent to which the rhino management agency is productively managing rhinos for maximum return (population growth equating to "profitability"), just as the performance of an investments manager is related to the increase in value of the investments portfolio that he manages.

# B SANP, KZNNCS AND OTHER SOUTH AFRICAN AREAS

The South African rhino management agencies (provincial and national) have shown how a range of such agencies can find a pragmatic balance between their joint efforts and their individual efforts. On the one hand, some joint effort is required to share expertise and information, and to ensure that national conservation goals are defined, but on the other hand each agency has to have a reasonable degree of freedom for decentralized decision-making and field action. Through the SADC Rhino Conservation Programme, it should be possible to reach a similar balance at the regional level.

There appears to be a need to rationalize some of the terminology. In the South African context, the term "conservation plan" appears to apply to an outline of rhino management goals, principles and policies. It could be argued that this type of framework should be termed a "strategy", while a plan (or "action plan") operates at a subsidiary level to specify required rhino conservation activities with timings, responsibilities, allocation of resources, etc. This may seem like semantics, but it may well be worth clarifying terminology within the SADC Rhino Conservation Programme.

The Rhino and Elephant Security Group (RESG) has apparently lapsed into an inactive state and the South African range state review has highlighted calls for funding from the SADC Rhino Programme to help resuscitate the RESG. The SADC Rhino Programme was designed to avoid overlap with RESG and the issue of funding support should only be considered following a thorough review of the role and achievements of RESG to date, along with the clear specification of its potential ongoing role and a justification as to how this fits the funding parameters of the SADC Rhino Conservation Programme. South Africa provides major lessons for the region regarding the positive role of the private sector in rhino conservation, and regarding the development of market values for rhinos leading to the generation of significant conservation funding and incentives for wildlife production as an economically viable land-use.

# ZIMBABWE

A negative lesson from the Zimbabwean experience, of relevance to regional rhino conservation efforts, is that a rhino strategy is unworkable without political commitment. Although a national strategy was developed in 1997 with international expertise and local stakeholder contributions, this strategy was "left on the shelf" for several years and it is only recently, following administrative changes within the Department of National Parks and Wildlife Management, that rhino action planning is being taken seriously.

The concept of rhino "custodianship" was first established in Zimbabwe in 1986 and has since become a significant element of the Namibian rhino conservation strategy. This concept may well have applicability elsewhere in the region. A significant outcome of the Zimbabwean experience is that when allocating rhinos under the custodianship scheme, these animals (and some of the donor support that was available for this scheme) were used as leverage to get landowners to amalgamate their properties into conservancies. This has created extensive rhino conservation areas within which rapid population growth has been possible without overstocking problems or inbreeding problems. The rhinos became the flagship species or catalysts to these conservancies that have created major opportunity for the conservation of other wildlife species.

# BOTSWANA

The Botswana situation parallels the Zimbabwean one in that the paperwork for rhino policy has been done but implementation has lapsed. Thus, to the extent that the SADC Rhino Conservation Programme funds the provision of expertise for strategy development in SADC range states, there must be some assurance that words will be translated into action in these countries. Perhaps the way to do this is to ensure that the strategy specifies an ongoing action planning process to set management targets that are measurable and which are subject to periodic review. The issue of what numbers of rhinos, and of what species, might be straying from Zimbabwe into Botswana appears to be an issue that might be investigated within the SADC Rhino Programme.

The Khama Rhino Sanctuary appears to be regarded as a "stepping stone" for the re-establishment of rhinos in the more extensive reserves. This concept of breeding rhinos, and gaining the necessary management experience, within a smaller area before embarking on more ambitious rhino restocking programmes is likely to be applicable in other range states such as Zambia and Mozambique, but the social and ecological problems associated with rhino management in small areas will also need to be taken into account.

## NAMIBIA

Given that South Africa unavoidably has a complicated multi-agency administrative framework for rhino conservation, the smaller and well-integrated framework in Namibia is a more appropriate model for the rest of SADC. The concept of barter trading of rhinos for other valuable wildlife species is a pragmatic approach by the Namibian authorities and may well be relevant in other SADC situations. A model for the sharing of the work required for successful rhino conservation is demonstrated by the productive relationship between the Namibian authorities and the Save the Rhino Trust, since the latter has been entrusted with the bulk of the rhino monitoring work in the Kunene Region. The community component of this work is the region's most advanced community initiative concerning rhinos.

Namibia has streamlined rhino custodianship on private land and provides more back-up for this scheme, in terms of professional involvement, than Zimbabwe (which first developed this concept) but does not appear to have used the scheme as a catalyst to the formation of extensive rhino conservancies at the outset of this scheme. The fact that small founder groups have been allocated to fairly small properties may become problematic in view of the needs for a high level of ongoing management to prevent overstocking and inbreeding, in a situation when government conservation funding is declining in real terms.

# SWAZILAND

The rather confusing situation regarding which agency has the authority to represent Swaziland on rhino issues shows how important it is for SADC rhino range states to streamline their interactions with the SADC Rhino Conservation Programme by clearly identifying their focal points for this programme. Swaziland shows an interesting fusion of private sector interests with state conservation interests. Such arrangements can be very constructive (as appears to be the case in Swaziland) but sometimes the "tail wags the dog", unless the policy and practice of rhino conservation is very clearly specified in a strategy to avoid vested interests from distorting rhino conservation priorities at a local or even at a national level. Other SADC states that need to re-establish their rhino populations through rhino importations may well be enticed by private sector or NGO-sponsored deals to bring in rhinos, but need to be careful not to set uncomfortable precedents or put the rhinos in sub-optimum areas. The "rules of the game" need to be thought out and made clear **before** such situations arise.

# ZAMBIA

The fragile situation with the white rhinos at Livingstone will hopefully improve rather than ending in extinction as was the case with the previous introduction of rhinos to Zambia, but this situation clearly shows the need for concerted and professional follow-up action, over a long period of time, to ensure the success of such introductions. The expertise and capacity realised within ZAWA in this situation could then be put to good use in any future re-introduction of black rhinos to Zambia.

## MOZAMBIQUE

For the re-establishment of rhinos in Mozambique, it appears that the most promising route would be to incorporate such an initiative within a Transfrontier Conservation Area initiative (notably the Coutada 16 – Kruger NP linkage). This will be a slow process but would be likely to be more successful in the long run than any attempt to set up an "island" of introduced rhinos elsewhere in the country (particularly where remnant animals might be secured and reinforced with introduced rhinos). Similar considerations are likely to apply to Angola.

## TANZANIA

The situation in Selous Game Reserve presents a particular challenge for rhino conservation. The surviving rhinos have escaped poachers primarily because of factors of natural protection (remoteness and dense vegetation). The challenge is to introduce rhino conservation measures in a way that does not strip away these protective factors. Any effort to set up a sanctuary, for instance, would have to be sustainably funded and effectively managed in order not to merely create a defined zone within which poachers could more easily find their prey. Thus, as rhino conservation plans are elaborated for this reserve, they will probably constitute a new model for rhino protection that may be applicable for any other remnant groups of rhinos that may be identified in Mozambique, Angola, Botswana or Angola.

## MALAWI

The Liwonde project is a "living example" of a rhino re-introduction project that is being achieved through co-operation between SADC range states and as such warrants consideration within the SADC Rhino Programme to extract lessons for similar projects that might be undertaken in Zambia, Mozambique, etc. One such lesson seems to be that considerable preparatory work is required with neighbouring communities in order to ensure that the local socio-political climate is conducive.

## ANGOLA

Due to the difficult situation prevailing in the country, and the lack of rhinos and the resources and expertise to conserve them, clearly any assistance from other range states in the region and from the SADC programme could be useful. The main question is where and how to start. Certainly better communications with all parties in Angola who might have a stake or involvement in enabling rhino conservation in the future are needed as a first step.