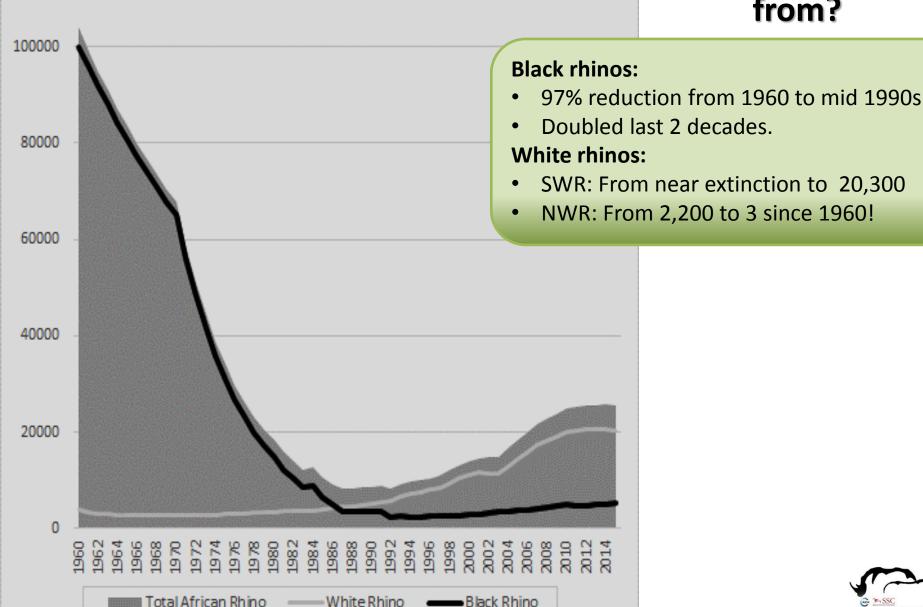


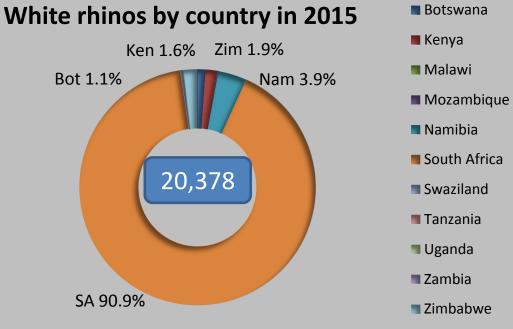
Estimated Numbers of African Rhino 1960-2015 (Numbers interpolated for years without estimates)

Where have we come from?

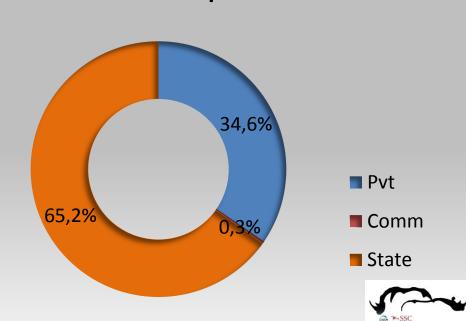






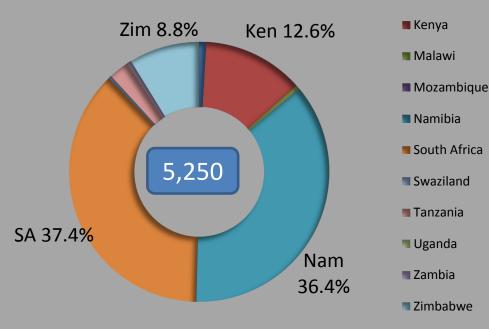






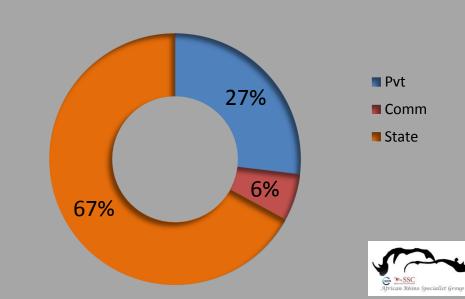
Africa's black rhinos Africa's Big 4 countries: 20,306 (79%) S Africa 2,767 (11%) Namibia 1,122 (4%) Kenya 1,122 (3%) Zimbabwe 7 other countries 631 (2%) 93% in S'n Africa!

Black rhinos by country in 2015

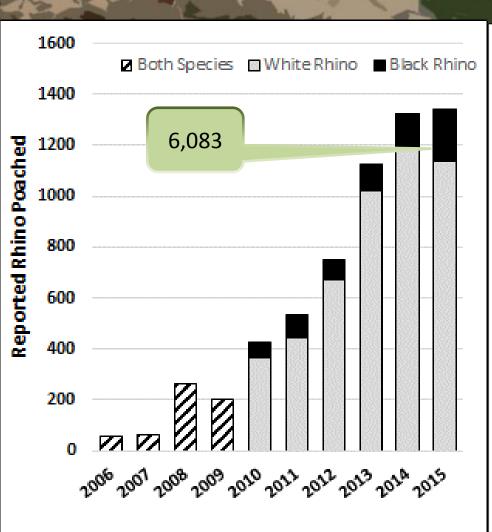


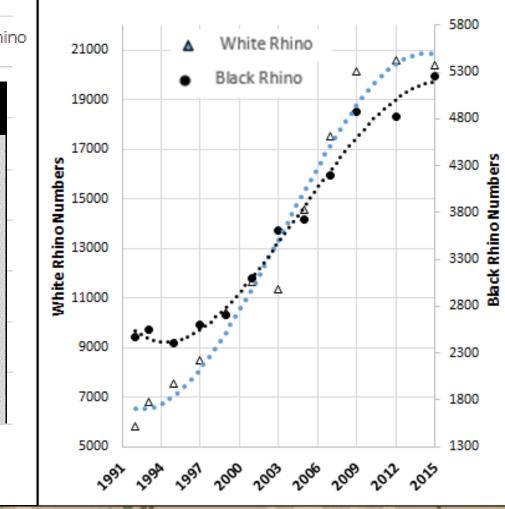
Botswana

Black rhino ownership



Poaching of Africa's rhinos





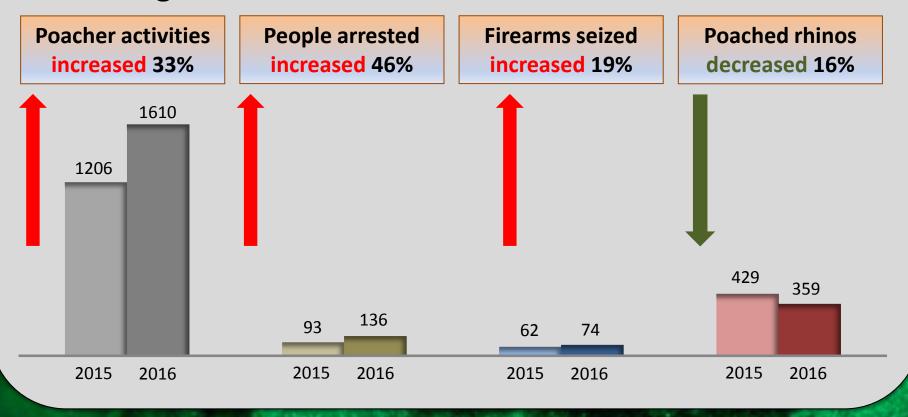


Rhino poaching by country

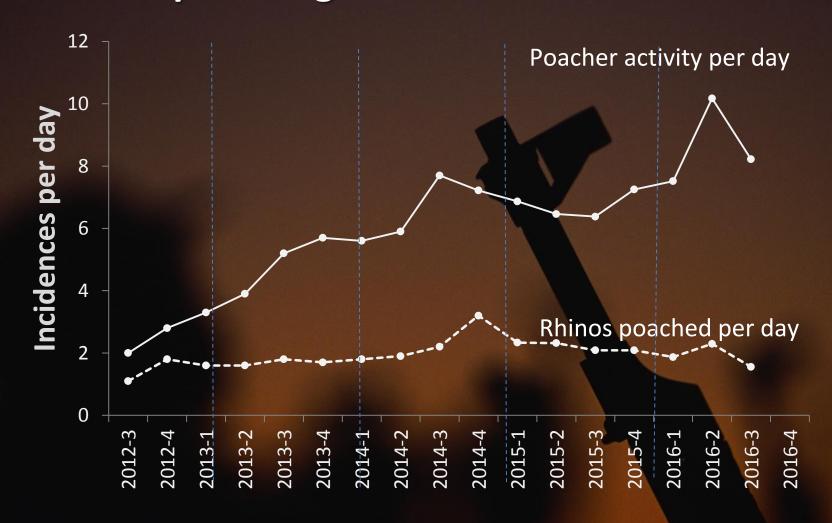
Country	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006-15 Total	2008-12	2013-15
Botswana	-	-	-	-	-	-	2	2	-	-	4	0.1%	0.1%
DR Congo	-	-	2	2							4	0.2%	0.0%
Kenya	3	1	6	21	22	27	29	59	35	11	214	4.8%	2.8%
Malawi	1	-		1	-		2	1	2	1	6	0.1%	0.1%
Mozambique	-	9	5	15	16	10	16	15	19	13	118	2.9%	1.2%
Namibia	-	-	-	2	2	1	1	4	30	90	130	0.3%	3.3%
South Africa	36	13	83	122	333	448	668	1,004	1,215	1,175	5,097	76.2%	89.6%
Swaziland	-	-	-	1	-	2	-	-	1	-	3	0.1%	0.0%
Tanzania	1	-	2	1	1	2	2	-	2	2	11	0.3%	0.1%
Uganda	-	-	-	-	-	-	-	-	-	-	-	0.0%	0.0%
Zambia		1		1	-		-		-	-	1	0.0%	0.0%
Zimbabwe	21	38	164	39	52	42	31	38	20	50	495	15.1%	2.9%
Total	60	62	262	201	426	532	751	1,123	1,324	1,342	6,083	2,172	3,789
Poached/day	0.16	0.17	0.72	0.55	1.17	1.46	2.05	3.08	3.63	3.68			

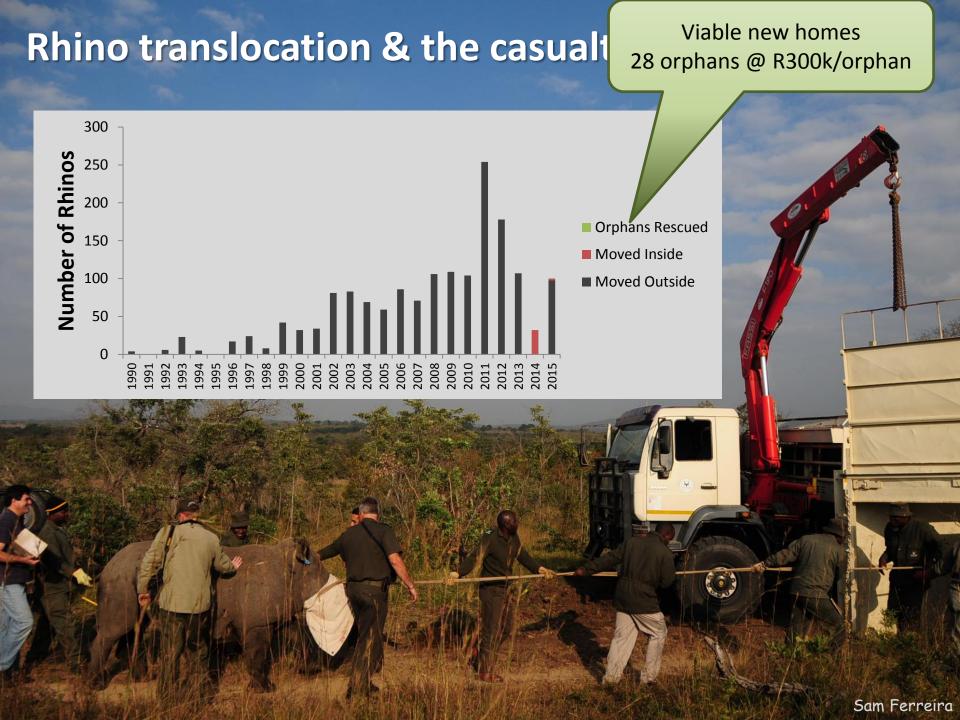


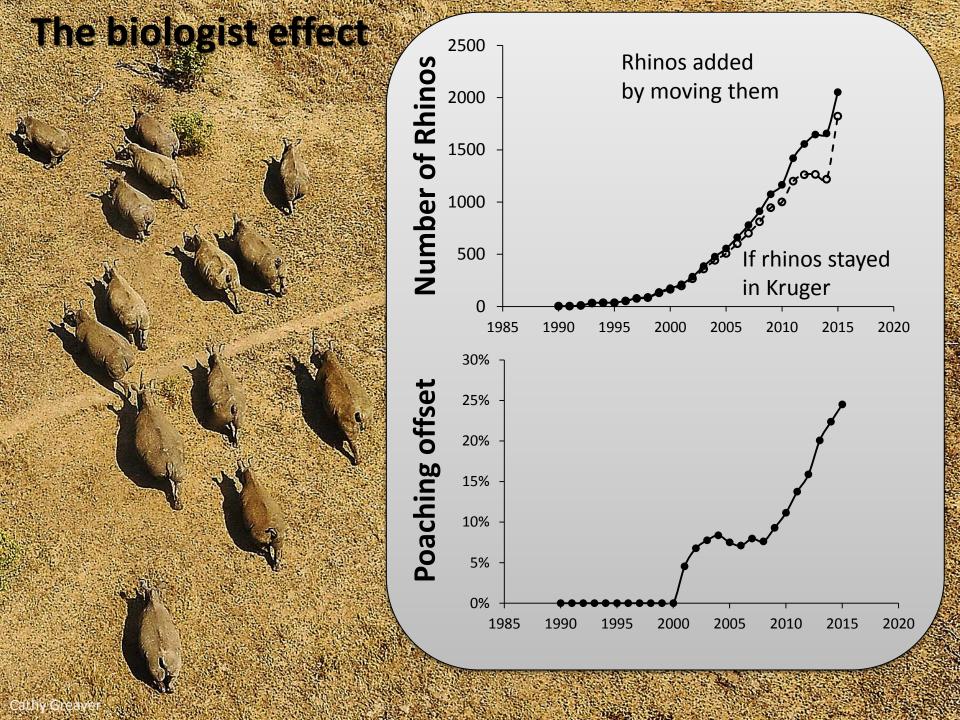
Kruger National Park Law Enforcement Trends



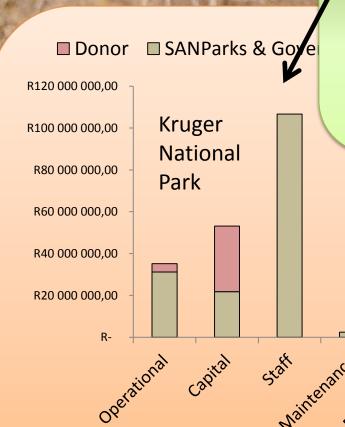
Rhino poaching - KNP







Costs



Financial costs:

- Kruger
 - ~\$800/yr/km²
 \$74m/5 yrs (ie ~\$1,600/rhino/yr)
 - Others (\$1,210-\$10,620/rhino/yr)
 - Security costs escalating by ~75%/yr
- SUSTAINABILITY ????
- DONOR RELIANCE??????
- Conflict with other social requirements

Other National Parks

Other costs

- Human lives: Rangers, communities
- Emotional/social: Psychological
- Opportunity:
 - Conservation < 5% conservation
 - Infrastructure degradation
 - o Crime
- Relationships: Green militarisation
- Reputation:
 - Militarisation
 - Corruption disease
- Messaging:
 - poacher advertising
 - o war of elite on poor





Targeted messages to RHINO poachers?

What's written What's heard? What we want What should to be heard? **Producers** be written? On the ground poachers There is a product . Number of Well managed Its not easy rhinos rhino pops to get horn **Poachers** Number Its easy to get horn caught, killed, Not worth poached sentenced, the risk Supply chain assets forfeited Price of There is money in it High risks, Stay out horn high technology, dogs, Life at risk we're listening There is a market Sustainable Do not use illegal Millions of legal medicine medicine users Price will increase! Rhino will not Not a good Rhino going go extinct Invest at any cost illegal investment **Consumers** extinct

Asian horn users

FINAL DRAFT AFRICAN RHINO RANGE STATES' AFRICAN RHINO CONSERVATION PLAN 2016



K	ey Compone	ents of plans	How <u>do</u> we respond	How <u>should</u> we respond	
	Component	Details	respond	we respond	
	Protection	Law enforcement, investigations, prosectintelligence	cutions,		
	Biological Management	Range/pop expansion, demographics, sh	naring info		
A.	Monitoring	Population, financial, social, reputation			
	Capacity	HR, financial, skills,			
- Mary	Coordination	Within, intra/inter departmental, intern communities, partners	ational,		
	Communication	Within, intra/inter departmental, intern communities, partners	ational,		
	Sustainability & support	Economic (sales, hunting trade), partner political	rship,		
	Cross-cutting	Research, enabling policies & legislation innovation & adaptive mgmt)	,		
				SSC African Rhino S	pecialist Group

KRUGER'S IPZ PROJECT OVERVIEW

in.

A The

Western Perimeter:

- 20.4km Soil Mounted Linear Magnetic Intrusion Detection System covering Elephant Point to Phabeni Dog Centre.
- · Controller at Phabeni Gate.
- 106km Western access road upgrades

Gate Canine System:

- Weapons & Ammunition, and Animal Product sniffer dogs at each IPZ Gate.
- Trained canine handlers.
- Handler and Canine Accommodation.
- Handheld scanners for ID Documents and License disks
- · Automatic Number Plate recognition.

Reaction Force Facilities:

6x Ranger Post upgrades completed and fitted with:

- Accommodation for Reaction force. pilot and Technical Operations
- Canine kennels
- Equipment storage facilities
- · Helipad with storage for fuel

Internal Surveillance:

- · Wide Area Surveillance System with:
 - Ngada Radar (Detection Range:
 - Daylight Camera (Range: 8km);
 - Low light camera with laser illumination(Range: 5km);
 - Mounted on a quick deployment

Stand Alone Intrusion Detection

Operational Control:

- Cmore collaborative platform to link sensor info and provide situation awareness.
- Predictive modelling to support decision making.
- Specialized Risk Management Capability.

Communication Network:

- Communication Integration System to integrate various voice communication sources.
- Microwave based High Speed Data Backbone, including 14 new towers.
- Point-to-point WiFi for "last mile"
- Area WiFi at all points of interest.

Air Mobility Capability:

- 2x Eurocopter AS350B3e, fitted for night operations.
- · Helis fitted for but not with Night Sur Search Light (One light to use as required).
- Helmets with night vision binoculars and wireless communication for observers.

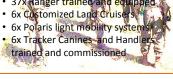
Eastern Perimeter:

- 29 km Fence Mounted Linear Seismic Intrusion Detection covering Crocodile to Sabie Rivers.
- Controller at Godleni Picket.
- Electro-optic River Gap Intrusion Detection System covering Sabie River Flood Plain

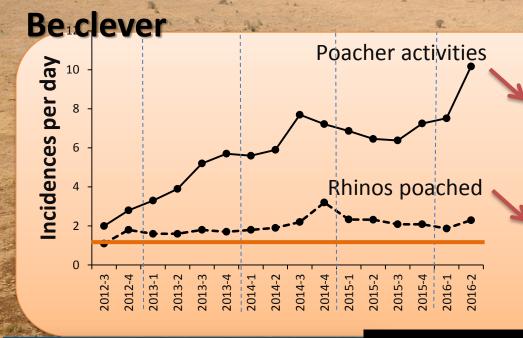
Reaction Force

- 37x Ranger trained and equip

- trained and commissioned







Cleaning the Park from outside Regional security – disrupt crime Provide for the needs of people

Maintaining the Park from inside Compulsory anti-poaching Innovative biological management

Rhino poacher jailed for 40 years in South Africa

A Thai man who organised illegal rhino poaching trips has been given the country's strongest illegal wildlife sentence to date

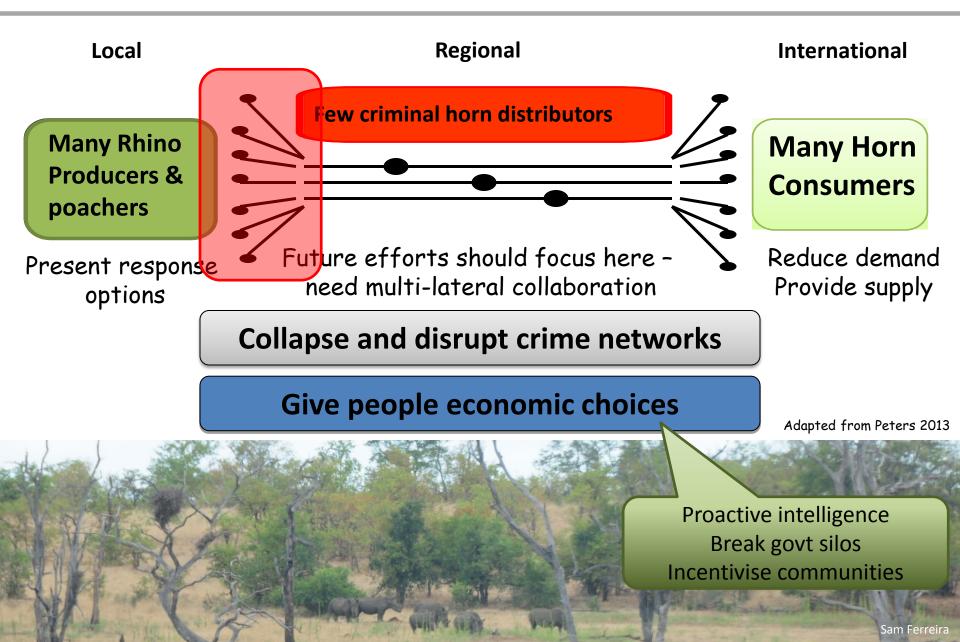


Thai national Chumlong Lemtongthai is sentenced at Kempton Park magistrates court, South Africa. Photograph: Siphiwe Sibeko/Reuters

Arrests in and outside Kruger NP in 2016

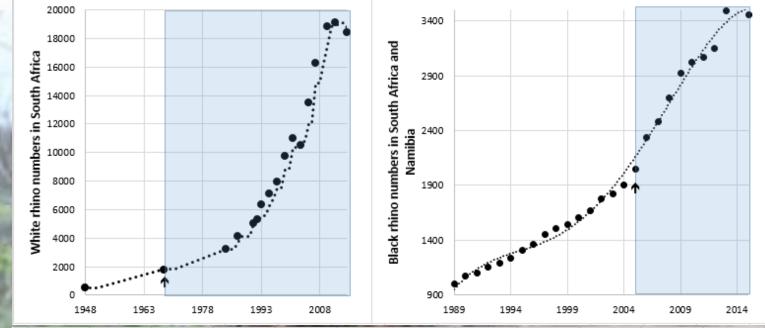


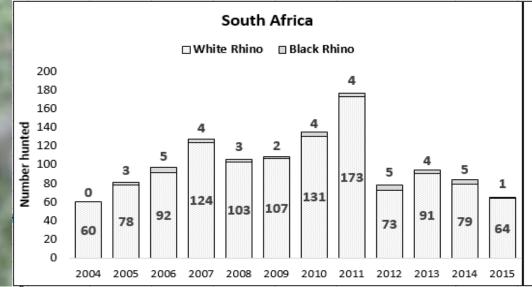
GAME CHANGING INTERVENTIONS CHANGING INCENTIVES TO POACH

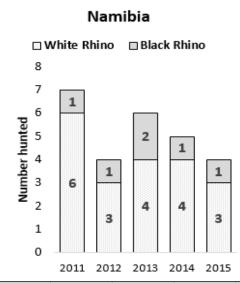


Sustainable use: trophy hunting

Who says its no so?



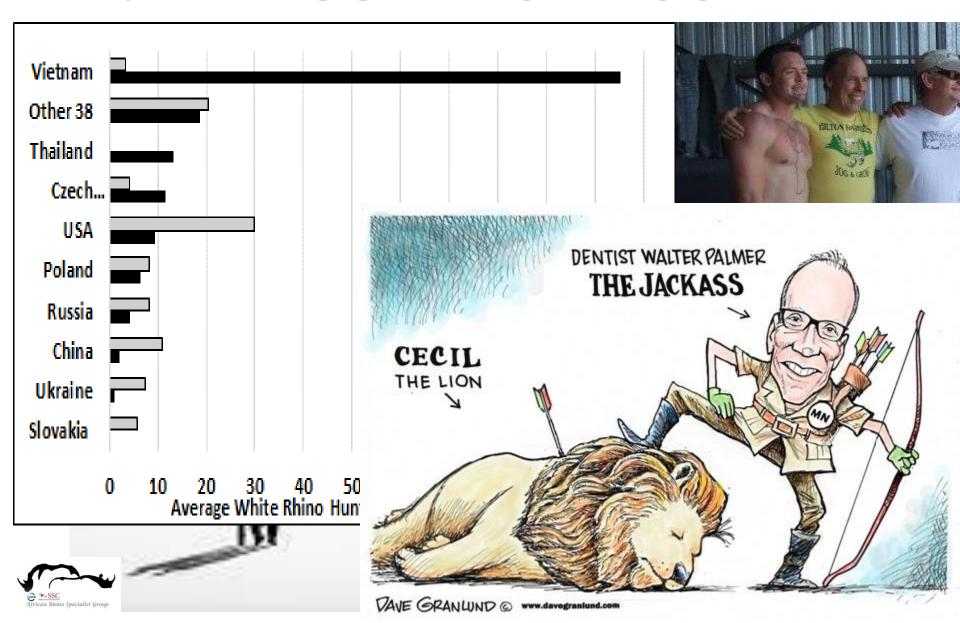




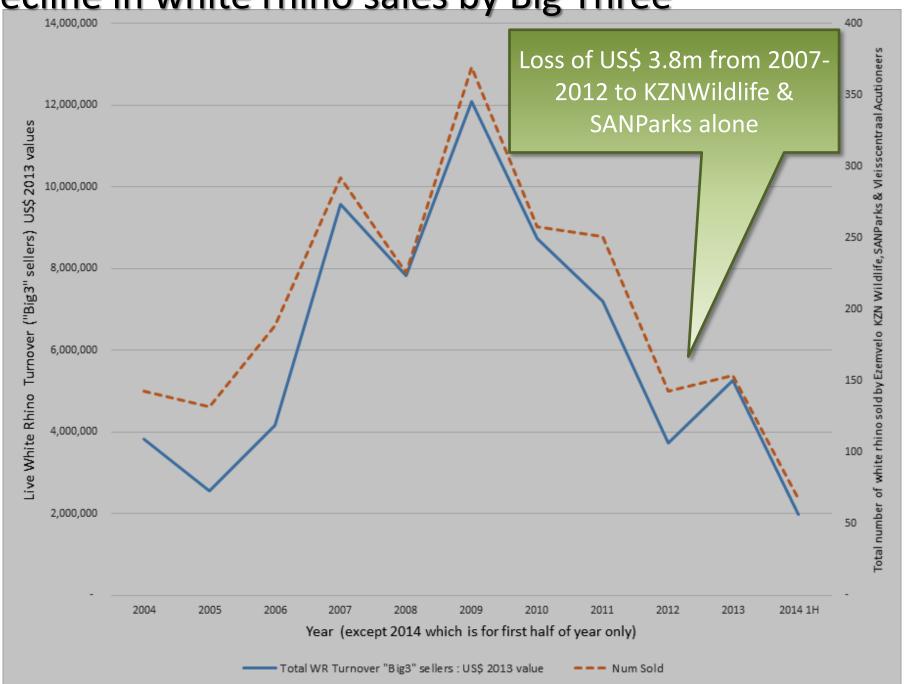


Sustainable use: trophy hunting

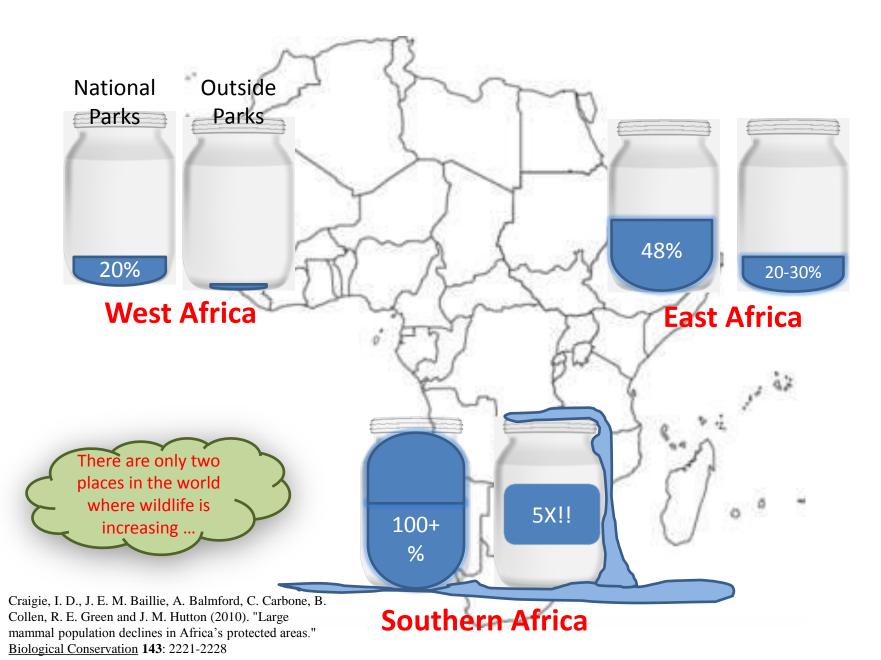
Its really about: Managing, monitoring & messaging



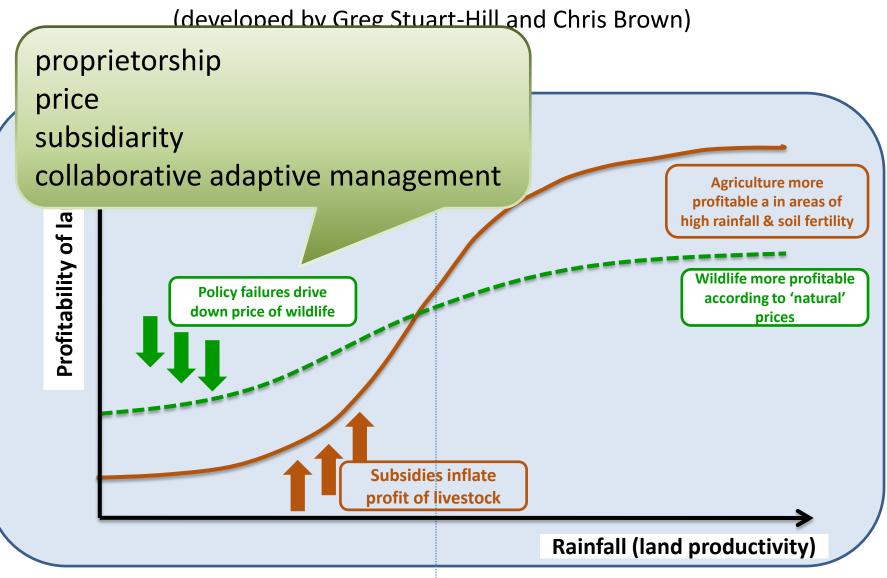
Decline in white rhino sales by Big Three



What wildlife is left? 1970-now



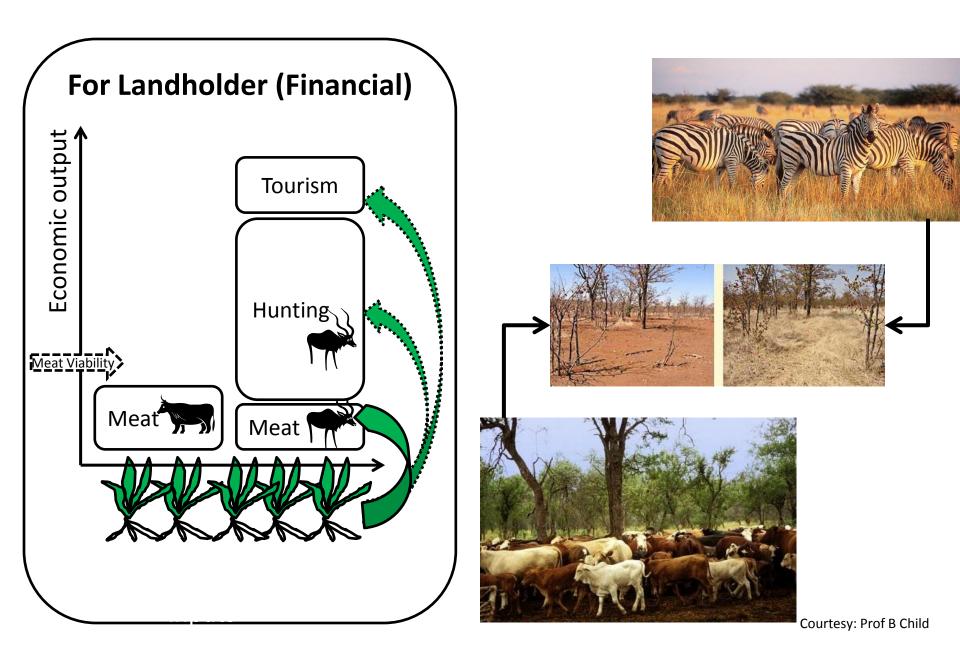
Model behind Sustainable Use Approach

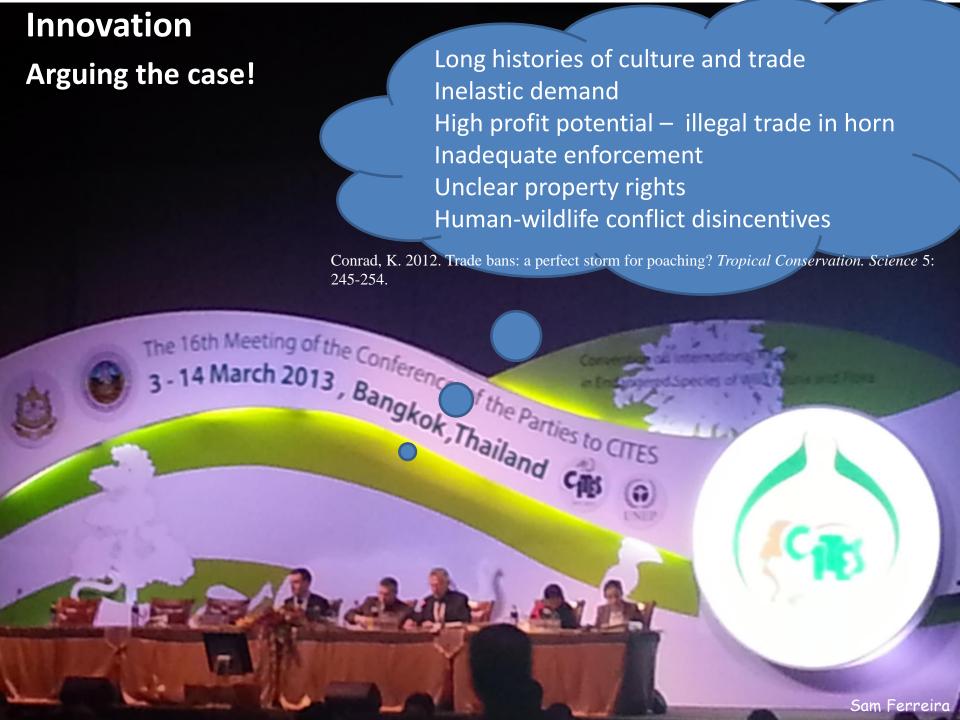


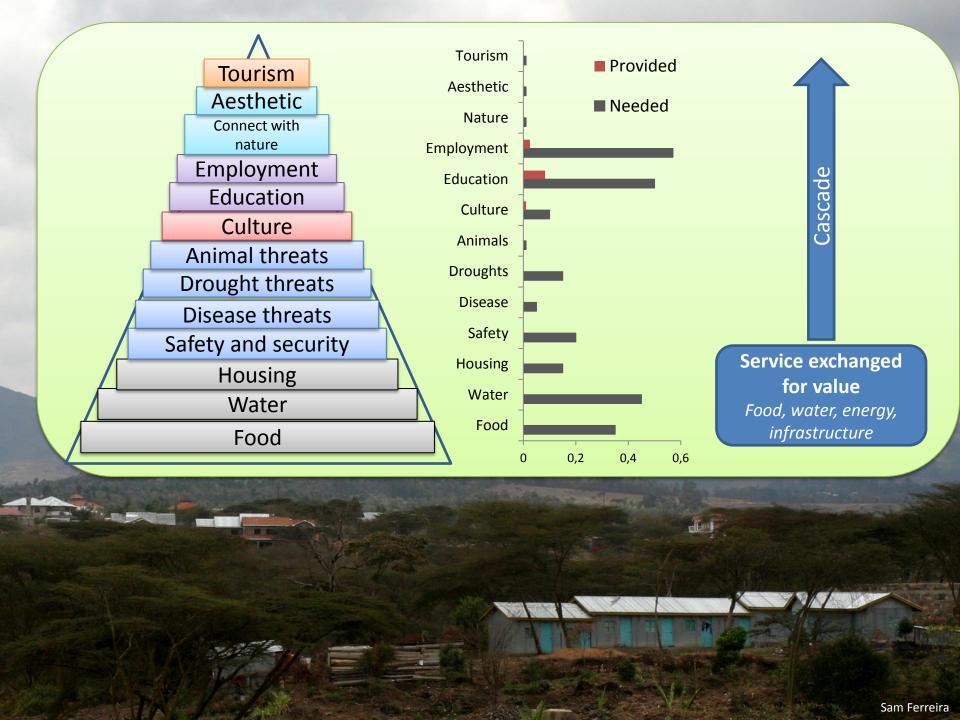
Agricultural Production System

Rangeland Production System

Sustainable use – good for economy, good for environment







Semi-intensive ranching of rhinos

Is it conservation?

ISSUES:

Wildness

Security

Fragmentation

Domestication

Selective breeding (mate choice)

Poor reproductive performance

Supplementary feeding

Increased disease risk at higher density

Veterinary support

Continental rhino plan
Secure, viable, growing &
valued rhino populations
across the African landscape



Ensuring the future of rhings?

- Need a WHOLE government response
- Effective law enforcement (break crime networks, prosecutions, proactive intelligence).
- Enabling legislation
- Increase the value of rhinos (ownership, sustainable use)
- Responsible & ethical use = sustainable use
- Conservation objective viable part of free-ranging systems
- Incentivisé greater participation (private, communal sectors)
- Greater social mandate
- Effective communication (focused messaging)
- Constructive cooperation
- Innovaté & experiment





