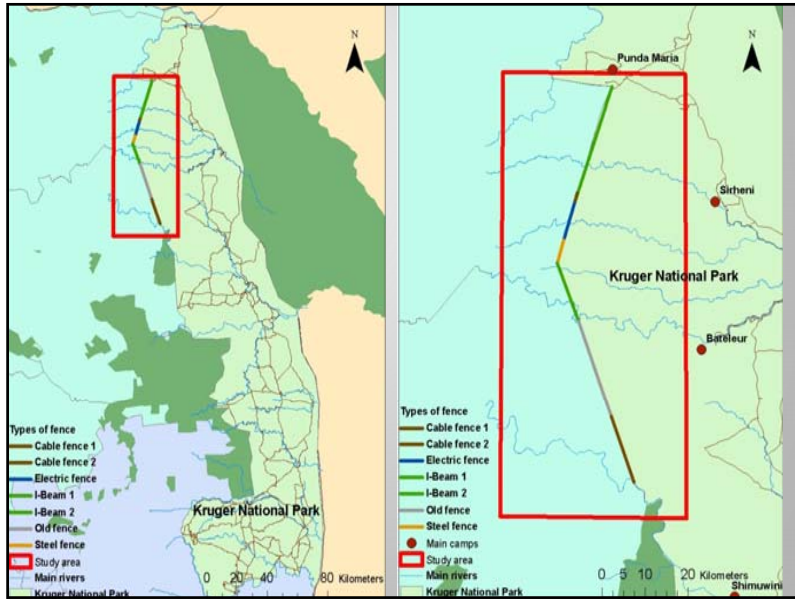




Why we need a simple cost effective fence monitoring system for KNP

Principal aim: fence monitoring system must be sustainable and of use to management





Our training regime involves DoA Fence workers...



Phase 1...The Barrier Tape Symbol System..BTSS

- Requires **barrier tape**, **marker pen** and an **envelope**
- A willing **fence worker**
- Symbols system**



Phase 2...Cyber Tracker...FISS

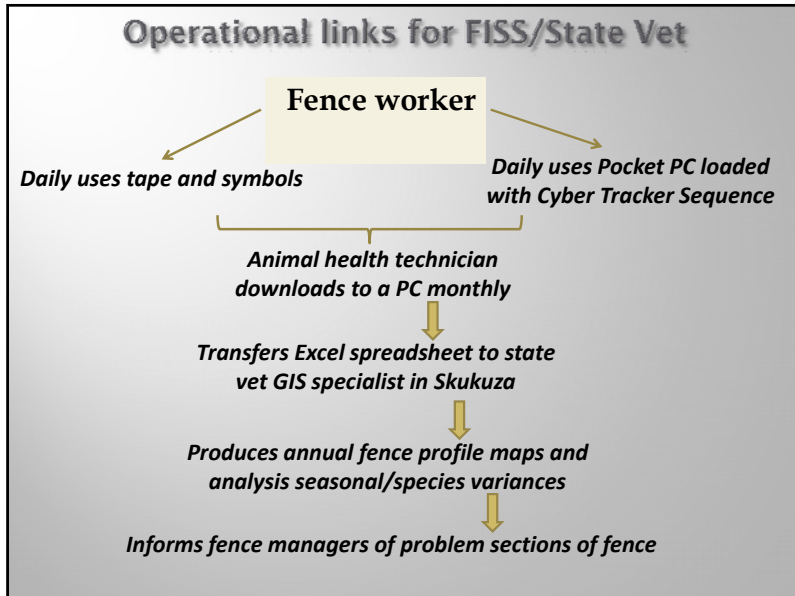
Barrier tape symbol system

Barrier tape

collection

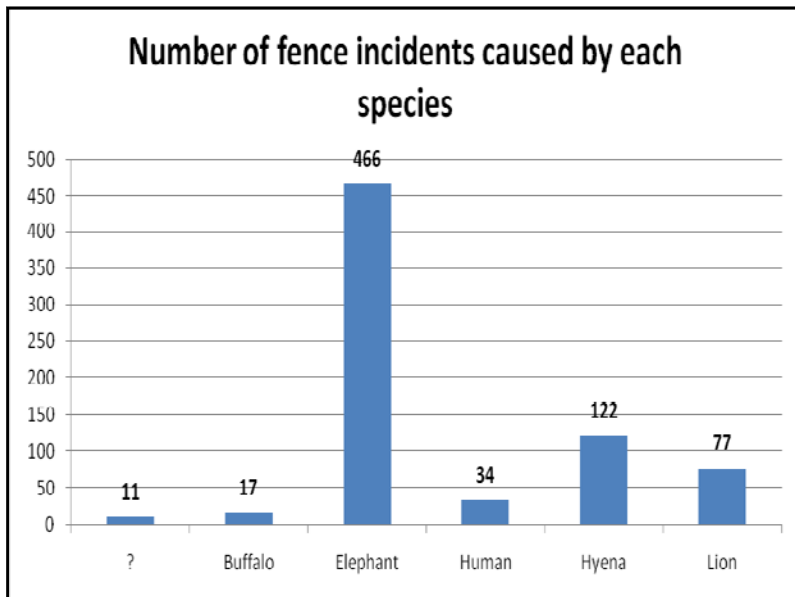
Camp	Type of fence	Animal
Punda Maria	2.4 m old fence	Buffalo
Bevula	2.4 m electric fence	Elephant
Shangoni	2.4 m new I-Beam fence	Lion
Nalatsi	2.4 m steel fence	Hyena
Tchombyeni	1.8 m rail post fence	Human
Phalaborwa		Kudu
		Impala
		?

Year	incident month	Incident day	Save!!
2009	January-01 February-02	0.	Click here to save!!
2010	March-03 April-04		
2011	May-06 June-06	7 8 9 <	
	July-07 August-08	4 5 6 .	
	September-09 October-10	1 2 3 0	
	November-11 December-12		



FISS delivers because it is.....

- ▣ **Cheap** – estimated cost **R10/km per annum**
- ▣ **Imparts** skills to fence workers
- ▣ **Low tech** - except for addition of cyber-trackers
- ▣ **Sustainable and Exportable**
- ▣ **Develops** long-term systematic monitoring capacity

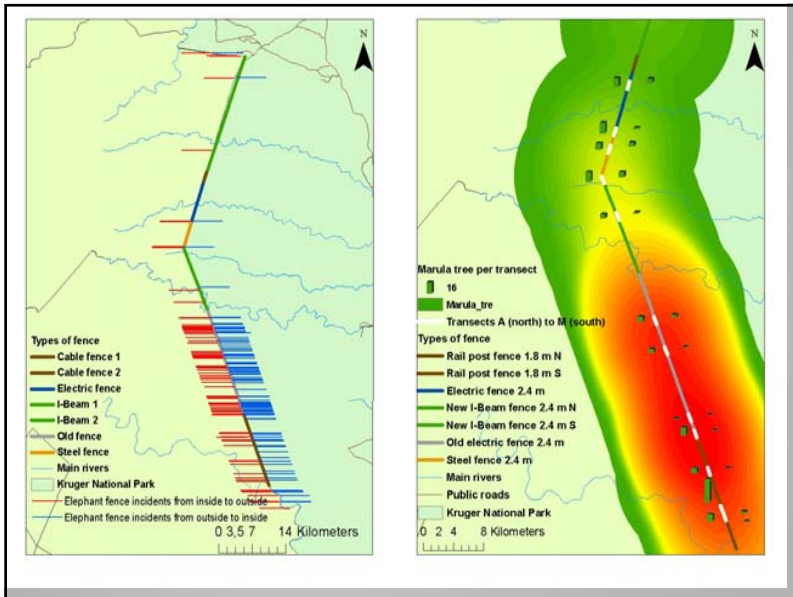
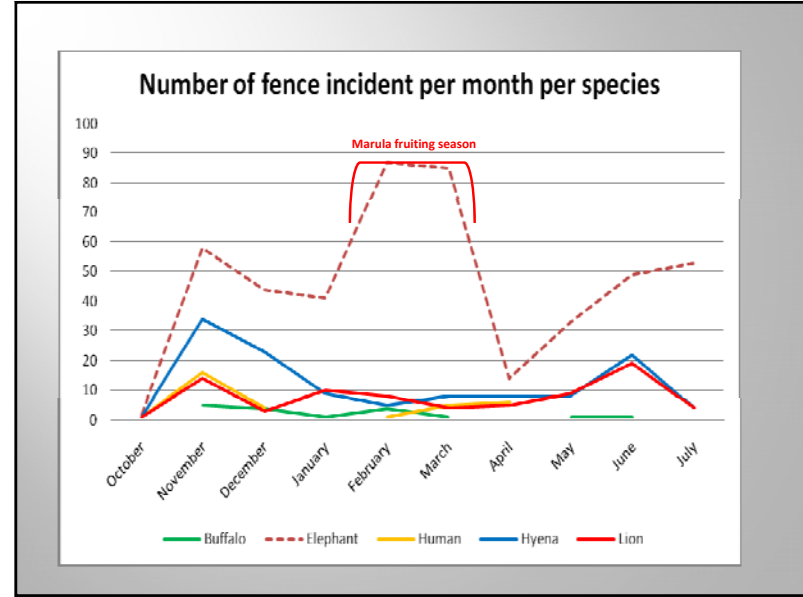


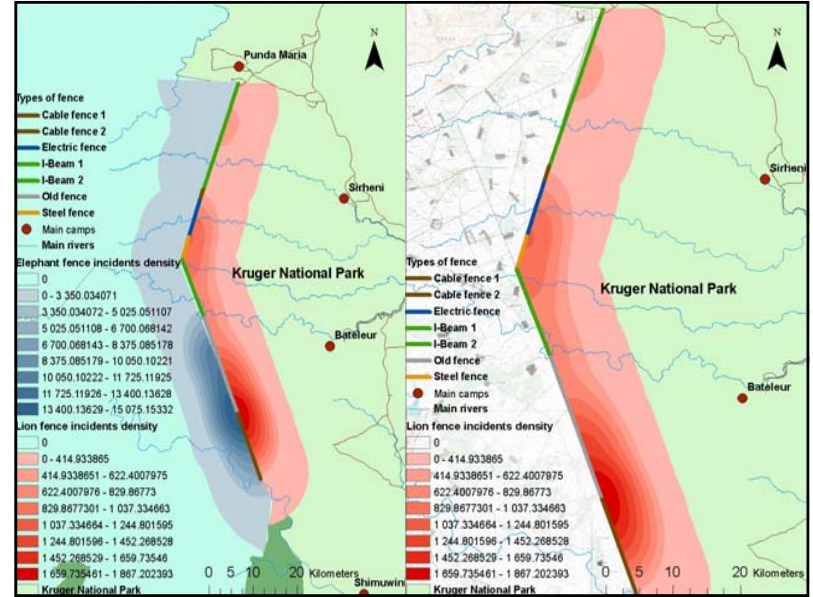
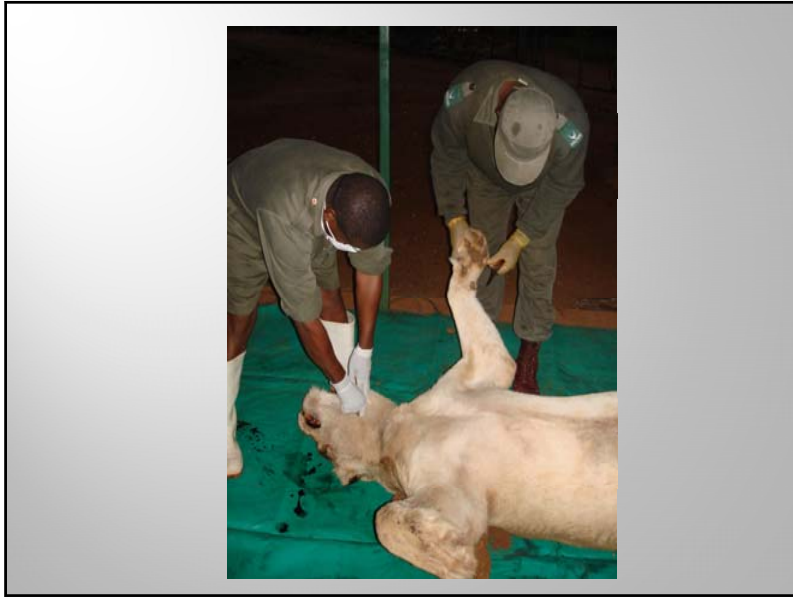
Number of fence incidents per type of fence (fence line of the study=91km; Nb of fence incidents of the study=727), corresponds to 8 fence incidents per km of fence over 10 months

Type of fence	Distance (km)	Fence incidents per type of fence	Fence incidents per kilometer
1.8 m rail/cable post fence	18	161	8,9
2.4 m electric fence	8	24	3
2.4 m new I-Beam fence	38	119	3,1
2.4 m old fence	22	375	17,0
2.4 m steel fence	5	14	2,8
NA	NA	25	NA
River fence	NA	9	NA
All the fence line	91	734	8,0



Courtesy: Kenneth Muchocho State Vet





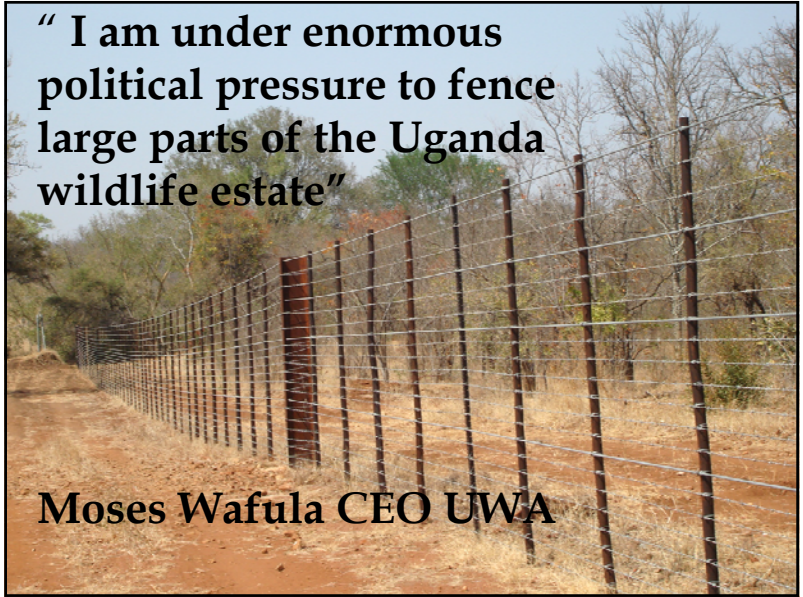
FIRM MILESTONES <i>WWF Project ZA1490 and USFWS Afe-0401</i>	
Year 1	Year 2 (Extensions)
<ol style="list-style-type: none"> 1. BTSS operationalised (Northern KNP Fence) 2. 40 workers trained-Materials produced 3. Pocket PC with Cyber Tracker deployed - New system- FISS 4. Data analysed 5. Fence permeability profiles produced – the <u>first</u> ever in Africa – corridors and hot spots identified 6. Database and FISS operational links created for State vet 7. Marula driver identified for elephants 	<ol style="list-style-type: none"> 1. Embed FISS in the North 2. Extend FISS to the South 3. Extend Cyber Tracker capture to Limpopo/Mpumalanga DCA units 4. Define elephant/Carnivores egress drivers-Telemetry (AfESG Year 2?) 5. Strategic Review of fencing in TFCA- AHEAD

Conclusions.....

Fence Interface Research and Monitoring

- ▣ *FISS pinpoints areas and drivers of fence permeability*
- ▣ *prepares mitigatory strategies*
- ▣ *Lends precision for disease and HWC modelling purposes*
- ▣ *Move towards a greater understanding of fences*

“ I am under enormous political pressure to fence large parts of the Uganda wildlife estate”



Moses Wafula CEO UWA

