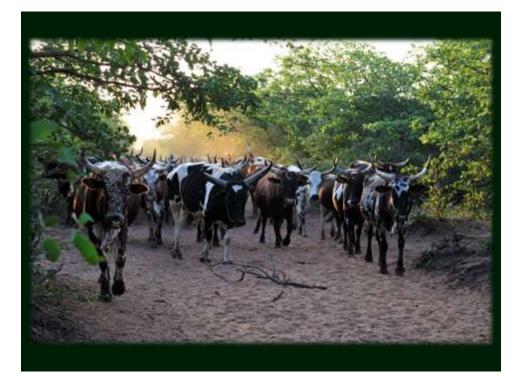
Rapid Veterinary Assessment of livestock, wildlife and human health issues in rural communities in and around Limpopo NP 2007 and 2010

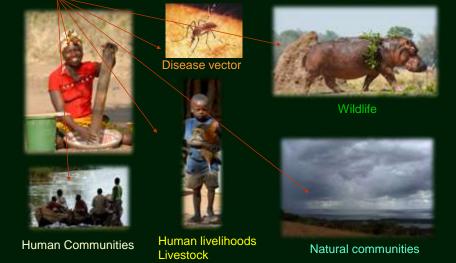






EGOSYSTEM APPROAGE TO LIEALTL

Ecosystem *n* a biological community of <u>interacting</u> <u>organisms</u> and their environment









REGURBENT, PERSISTENT AND SO GALLED EMERGING DISEASES IN AFRICA



Diseases having a Direct Impact on Human Health

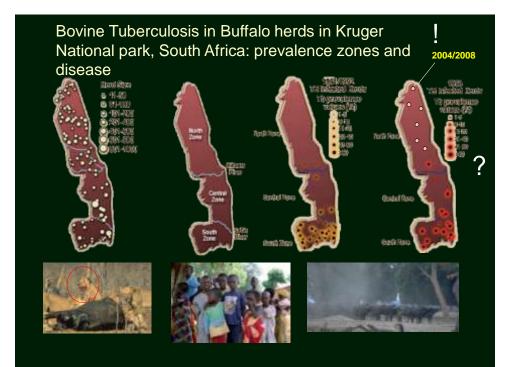
HIV-AIDS SIVs

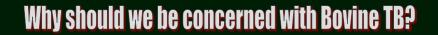
Ebola Rift Valley Fever (RVF Congo-Crimean HF, TB Malaria Trypanosomiasis Diseases having an Indirect Impact on Human Health

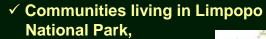
Foot-and-Mouth Disease Rinderpest Anthrax Bovine TB CBBP Canine Distemper Trypanosomiasis

Many of these diseases have political, cultural and institutional constraints in terms of control, treatment and prevention. Some have a positive effect on Protected Areas and Conservation by restricting access.







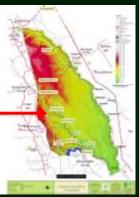


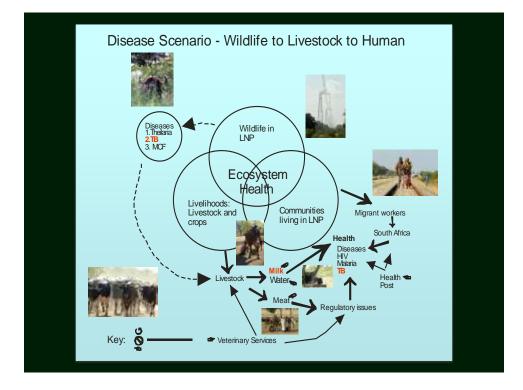
✓ Fences down!

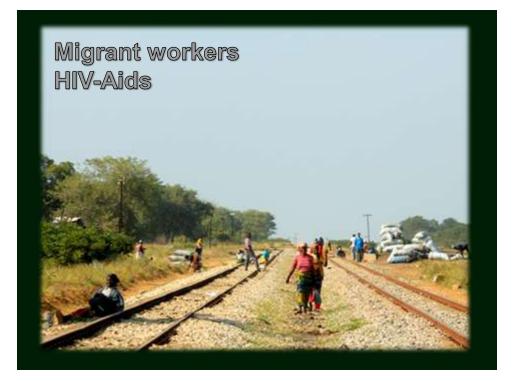
North

litanis Alver

- ✓ Large number of cattle,
- Movement in and out of <u>Park</u>,
- ✓ HIV prevalence is significant,
- ✓ Unknown TB status in people,
- Inknown status to east, south and north in terms of disease.



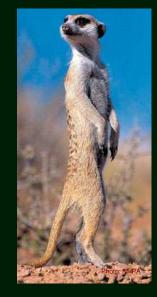








CASE STUDY: Mycobacterium tuberculosis - a threat to free-ranging Wildlife

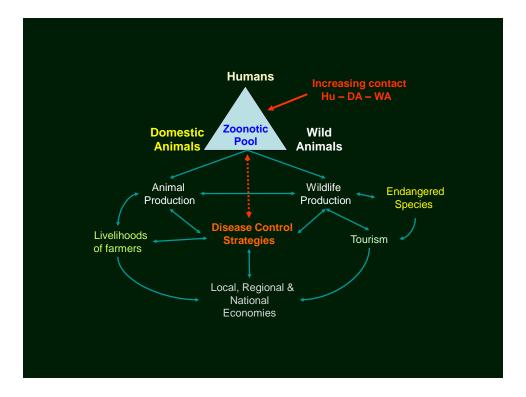


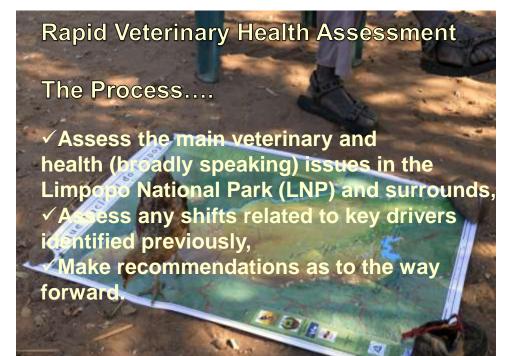
M. Tuberculosis was confirmed in a group of Suricates (n=21) (Suricata suricatta) in the northern Cape, South Africa and in Banded Mongoose (n=7) (Mungos mungo) in the Chobe National Park, Northern Botswana (Alexander et al., 2002),

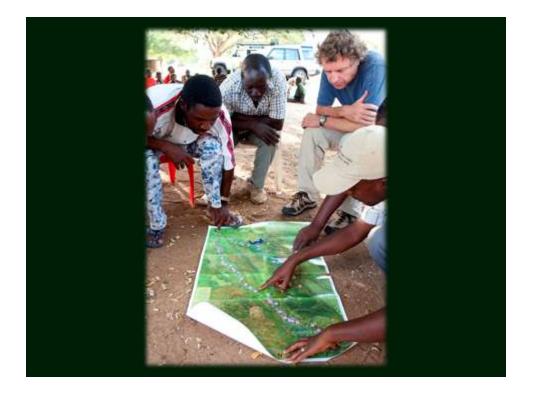
Behaviour patterns of both species would facilitate exposure to human excretions in the environment,

Botswana has one of the highest HIV/Aids incidences in the world, with a concomitant increase in overt TB cases,

M. Tuberculosis, as a so called emerging disease, may pose a threat to free-ranging wildlife populations who have close contact as a result of human activities.















DRIVERS 2007

- ✓ Fences, for example, the removal of Kruger National Park (KNP) fence,
- ✓ Livestock,
- ✓ Resettlement of communities and their livestock,
- ✓ HIV and migrant workers,
- ✓ Lack of resources within DNVS and LNP, including transport and fuel, lack of human capacity,
- ✓ Access to and availability of water,
- ✓ Land Use planning in and around GLTFCA,
- ✓ Movement of livestock and livestock products,
- ✓ Zoonotic diseases, including public health issues such as consuming unpasteurized milk,
- ✓ Human-Wildlife Conflict (HWC), including crop destruction.







DRIVERS 2010

✓ Resettlement, disillusioned communities,

✓ Housing, incomplete and poor design,

✓ Human wildlife conflict (HWC), increasing especially with elephant,

 \checkmark HWC, increasing presence of buffalo and potential contact with cattle,

✓ Health, provisioning inadequate and difficulty with transport,

✓ Health, threat of wildlife limiting people's ability to move around,

- ✓ Transport, not available
- ✓ Roads, poor condition and sometimes impassable,
- ✓ Communication, poor from LNP,
- ✓ Water, access, availability and quality,
- ✓ Bore-holes (if present often not working),
- ✓ Fencing and Corridors,
- ✓ Benefits (20%) recurring theme

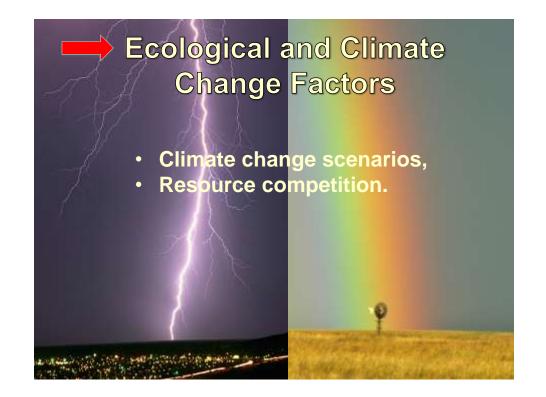




Human Health and Well Being

Poor and understaffed health facilities, Poor road infrastructure, Problem animals.





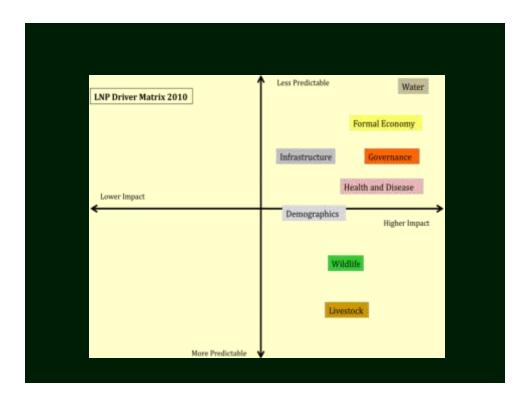
Key Driver: Water

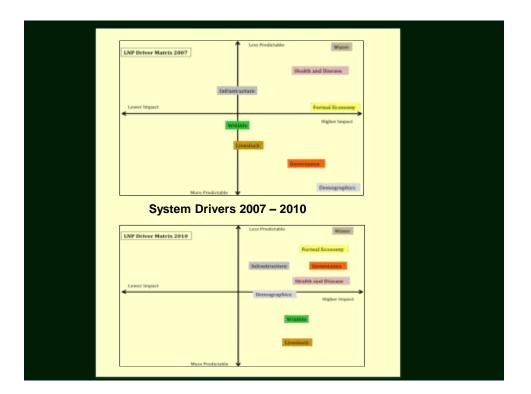




Driver Matrices:

LNP Driver Matrix 2007	Less Predictable	Water Health and Disease
	Infrastructure	
Lower Impact		Formal Economy
	wildlife	Higher Impact
	Livestock	
		Governance
More	Predictable	Demographics





Summary:

The rapid assessment revealed that the development of the LNP is at a critical stage in terms of its legitimacy in the eyes of the community – resettlement is a <u>key</u> driver in this instance. There are a number of health related issues that are still of great importance and the increasing contact and interactions between wildlife, people and their livestock is creating significant concern. This is at the village and community level but there is increasing concern at the national level in terms of the control of trans-boundary diseases with the increasingly active interface within LNP.

leath and Conservation

Poverty is an integral part of the Health paradigm

Health is a key area where holistic, integrated multidisciplinary approaches across landscapes need to be adopted to ensure long-term conservation success.

It should be an integral part of any Landscape Based Conservation Program.

Healthy people and their livestock are more likely to support conservation initiatives and be good environmental stewards.

HEALTH – A PART OF THE TOOLKIT