



SANBI BIODIVERSITY PLANNING FORUM 2018

The Kruger National Park Buffer Zone: Planning from the outside in

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Mopani Rest Camp, Kruger National Park

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THE KRUGER 'BUFFER' CONTEXT

Geo-environmentally:

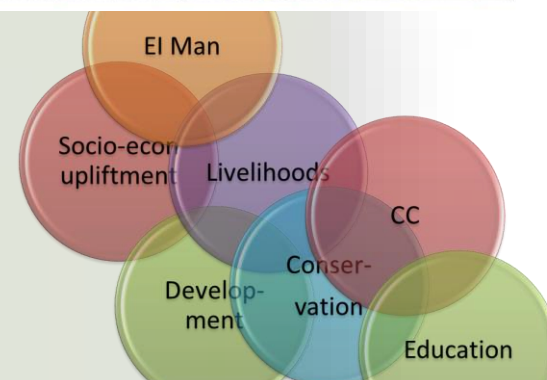
- ± 4 million hectares
- Savannah; Grasslands and Forest Biomes
- Catchments: Limpopo ↑ ... Inkomati Usuthu ↓

Socio-economically:

- Primary Land Uses:
 - Conservation Areas (Comm; Priv; State)
 - Mining
 - Agriculture (com and subs)
 - Urbanised Areas (formal and informal)
- ± 3.5 million people
- Majority of areas rural

Institutionally:

- International borders
- 2 Provinces; 3 District and 9 Local authorities
- 115 Traditional Authorities
- Large NGO contingency



THE KRUGER NATIONAL PARK MANAGEMENT PLAN 2018-2028

High Level Objectives



- **Integrated LU and BR Planning**
- **GLIFCA, Cons area Contr & Coop models**
- **Integrated Catchment Management**

Objective: To improve and maintain healthy ecosystems that promote responsible biodiversity economies beyond the boundaries of the park, through implementing a range of co-operative “buffer mechanisms” within the municipal, biosphere and bioregional planning processes, and through natural resource, protected area, environmental and wildlife economy programmes.

Pro-Active Processes:
NEMPA Planning;
Development Planning;
Biodiversity Planning;
UNESCO MaB Planning

Reactive Processes:
Environmental Authorisations;
NGO & Other Projects;



KRUGER TO CANYONS
BIOSPHERE REGION

MAKING SENSE OF THE INTEGRATION ZONE: SPATIAL PRIORITISATION TOOL



It's purpose:

To develop a rapid systemic spatial assessment for landscape level interventions in the Greater KNP buffer zone...

Focus:

- Livelihood Priorities
- Biodiversity Priorities
- Climate Change Resilience Priorities
- Ecological Infrastructure Priorities

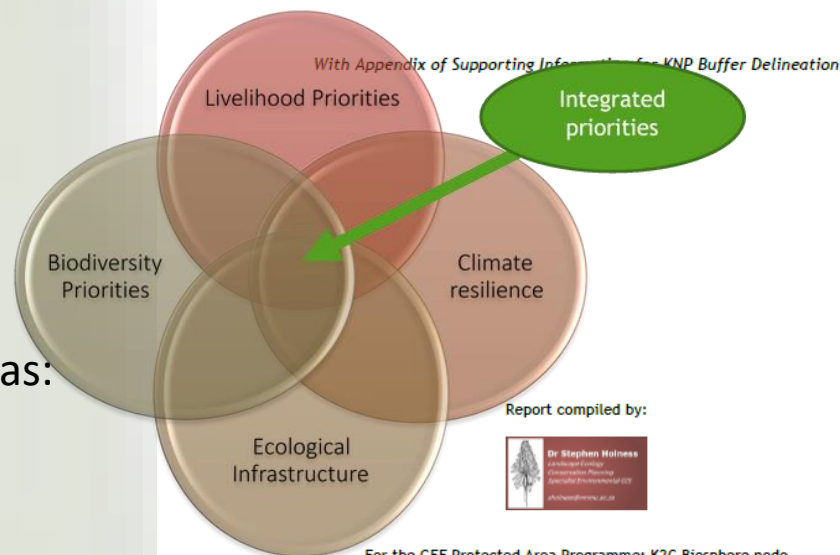
What is it?

- A Spatial Report
- Scalable Spatial datasets
- Interactive online map (CI Resilience Atlas: www.southafrica.resilienceatlas.org)



An Integrated Spatial Prioritization for the Greater KNP Buffer:

Bringing livelihoods, ecosystem services, climate change adaptation and biodiversity issues together to identify an integrated set of natural and semi-natural priority areas for supporting overall system resilience



For the GEF Protected Area Programme: K2C Biosphere node

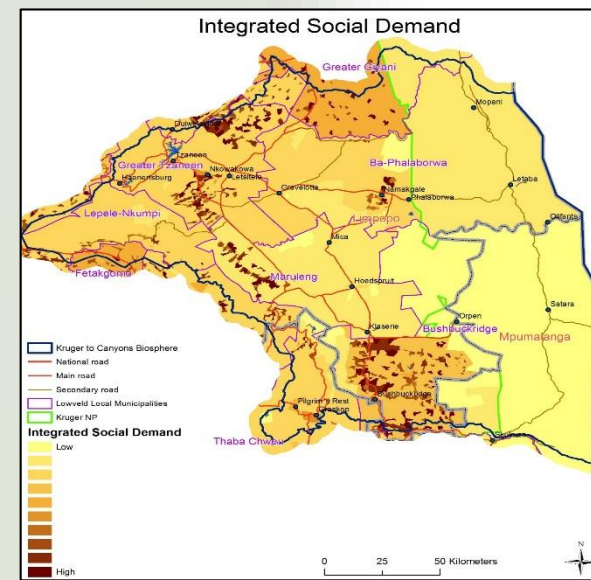
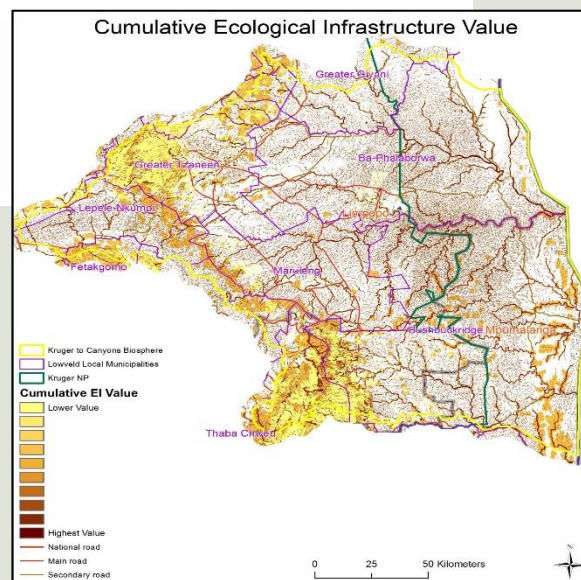
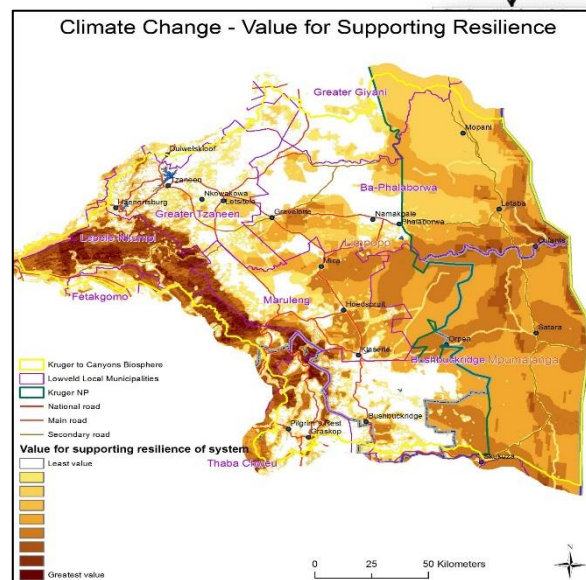
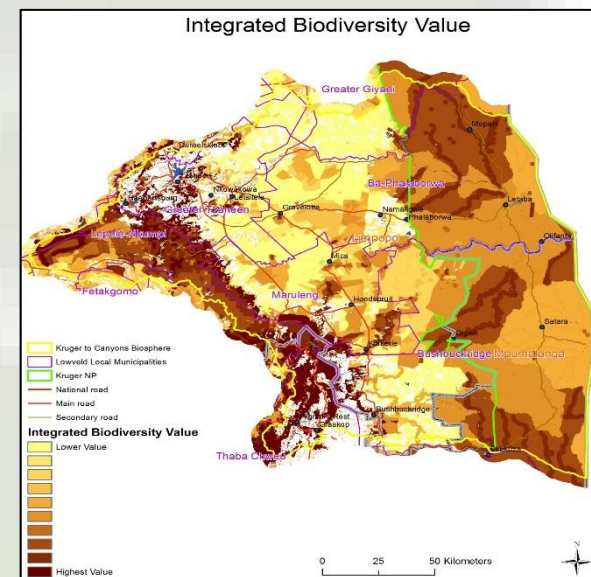
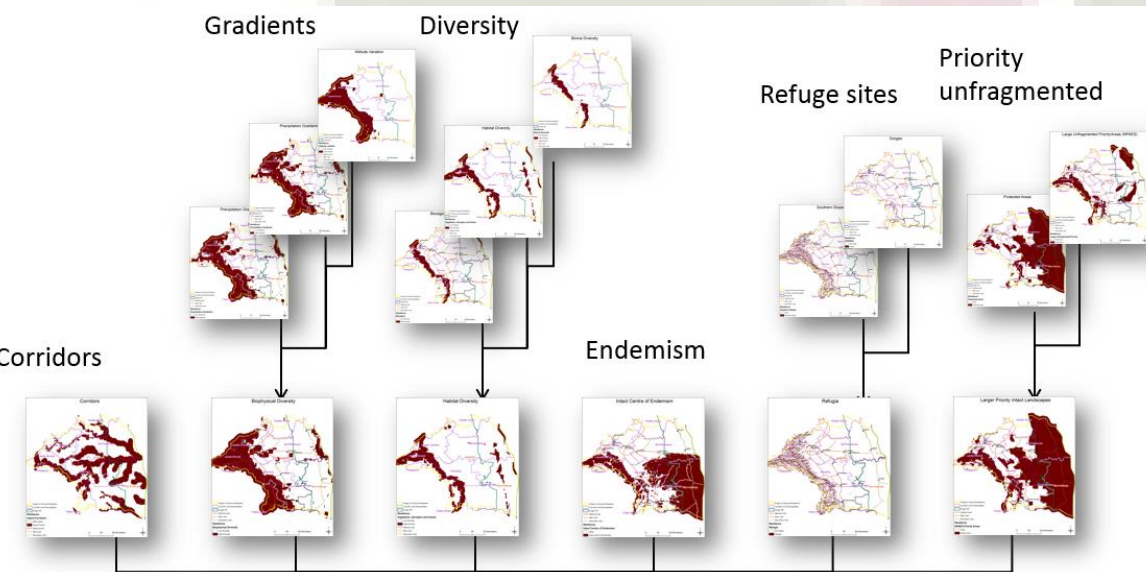


KRUGER TO CANYONS
BIOSPHERE REGION

SPATIAL PRIORITISATION: NUTS AND BOLTS



South African
NATIONAL PARKS





PRACTICAL USES: CONTEXTUAL PRIORITISATION OF INTERVENTIONS



Pafuri: Madimbo, Makuya, Makuleke complex

- High conservation value
- Community SED priority
- Wildlife security
- International security
- Tourism value
- GLTFCA priority
- Park Expansion corridors
- Opportunity base: programmes

Escarpment

- Water stewardship

Manyeleti surrounds complex

- Community SED priority
- Wildlife security
- Herding for Health concept & stewardship
- Tourism value
- Park Expansion corridors
- Opportunity base: various programmes

Matsulu/Stolznek

- Community SED priority
- Wildlife security
- Retail
- Agri-hub
- Opportunity base: various programmes
- Park Consolidation Mhetohumusha

Phalaborwa Wild Hub development

- Tourism
- Community SED

Gidjana/Shangoni

- Community SED priority
- Access
- Tourism
- Wildlife Economy

Letaba ranch

- Conservation
- Community SED
- Wildlife security
- Tourism

Sabie river complex

- High conservation value
- Safety and security
- Community SED priority
- Park access
- Wildlife security
- Agri-value chain & stewardship
- Livestock management
- Tourism
- Opportunity base
- Strikes

Nkambeni

- Safety and security
- Park consolidation
- SED

Croc river gorge

- Conservation value
- Community SED priority
- Wildlife security

PRACTICAL USES: DEVELOPMENT OF AN INTELLIGENT LAND USE BUFFER

Purpose:

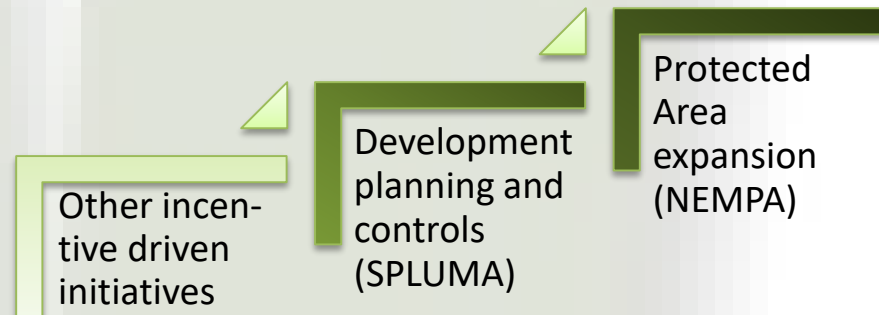
To, in areas adjacent to the park under land use change threat, and where other mechanisms are not suitable, provide protection for areas critical for the ability of the park to achieve it's objectives

How the intelligent buffer was developed:

- Integration of CBAs; NPAES; NFEPAs; Viewshed; Land Use
- Extensive engagements with relevant authorities; strategic partners and stakeholders

Target market:

- Biodiversity Planning
- Development Planning (Local and Traditional)
- Environmental Planning
- Environmental Authorisation Processes

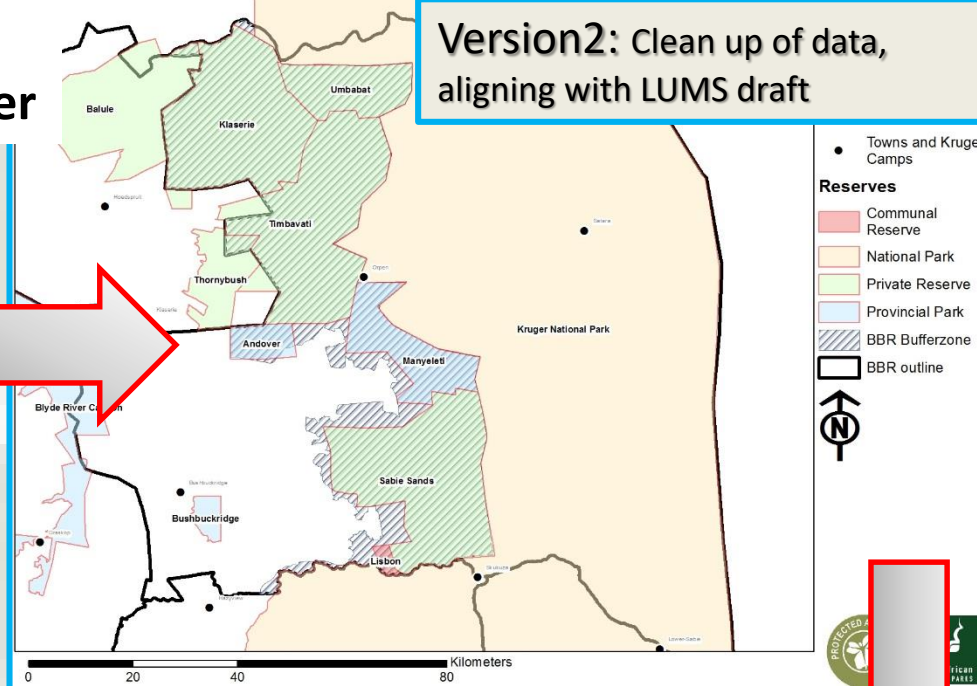
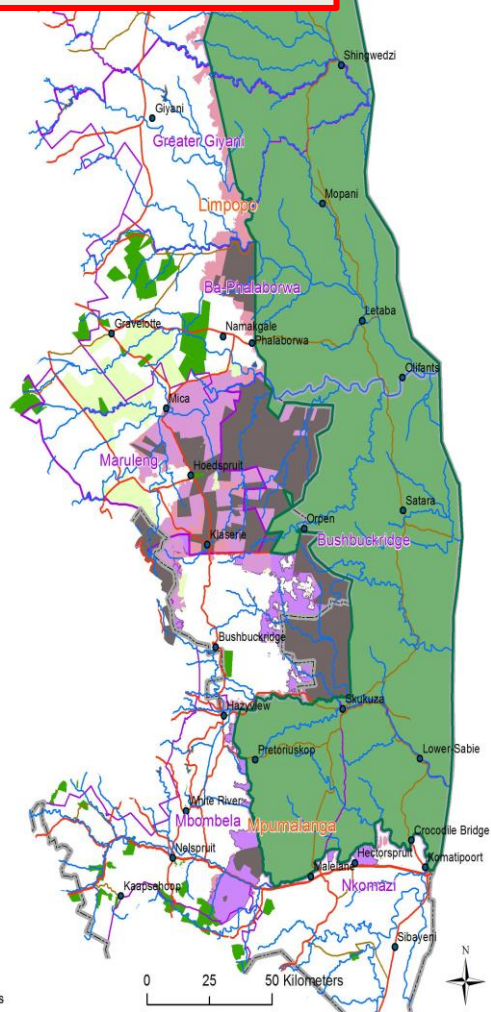


*There are multiple 'integration mechanisms' of which the Land Use Buffer is one

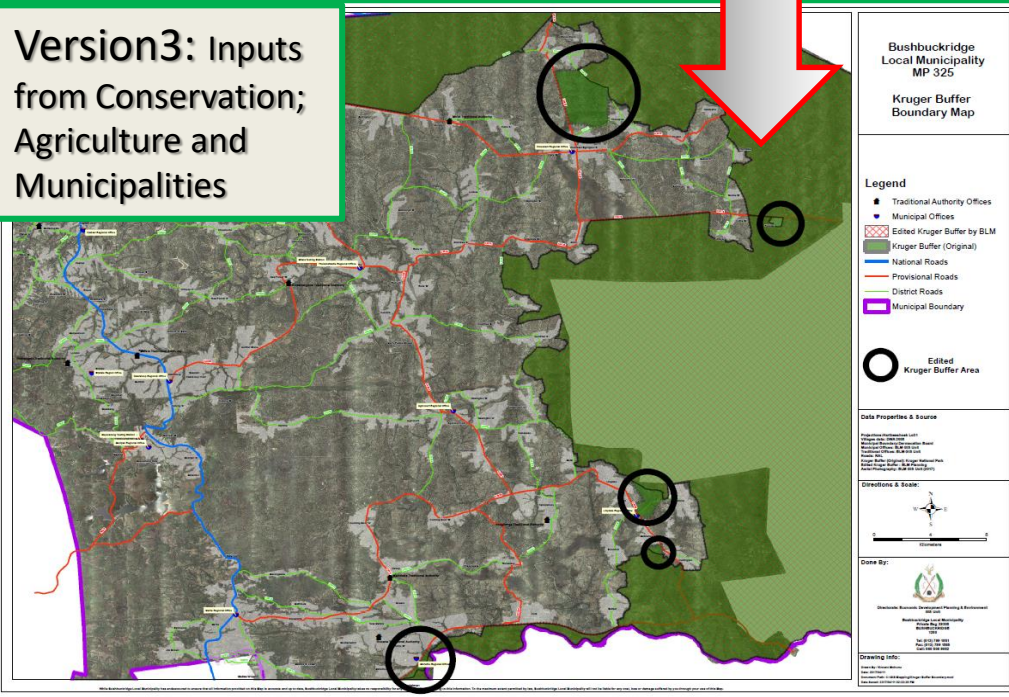
PRACTICAL EXAMPLE: Development of LU buffer

**Version1: Data modelling
process –NFEPAs/
Viewshed-light pollution/
PA Expansion priorities/
CBAs/Land use**

**Version2: Clean up of data,
aligning with LUMS draft**



**Version3: Inputs
from Conservation;
Agriculture and
Municipalities**





Thank you
Any Questions?

