

# The Sustainable Wildlife Economies Project (SWEPE)

## LANDHOLDER FEEDBACK REPORT



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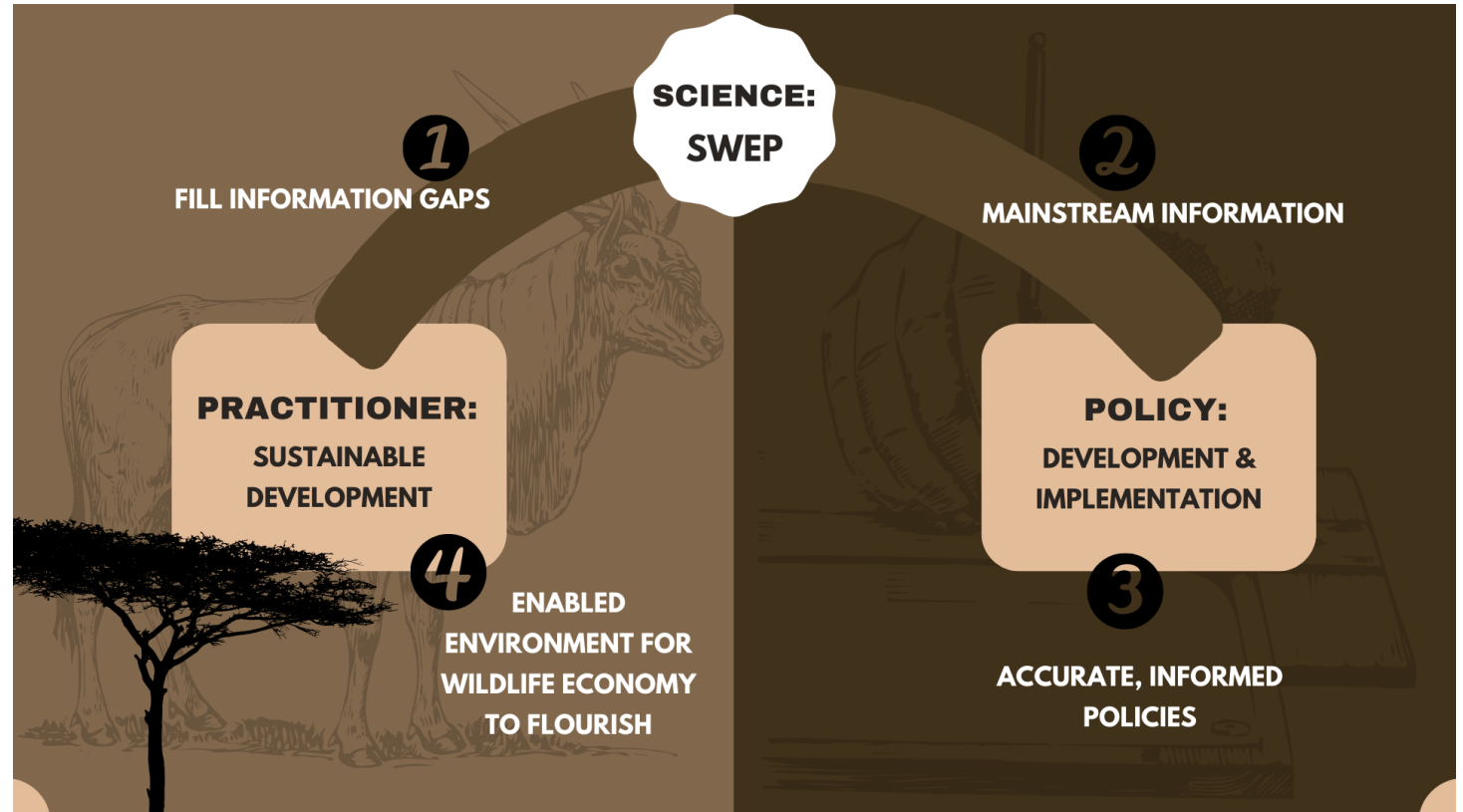
# The Sustainable Wildlife Economies Project (SWEPE)

The project implementing team for SWEPE was put together to integrate the science-policy-practitioner spheres.

The South African National Biodiversity Institute (SANBI) is the primary project coordinator for SWEPE. The United Nations Development Programme (UNDP) provided the in-field experience and knowledge of sustainable land management and agro-ecological systems thinking. Rhodes and Stellenbosch Universities provided the research and analytical power and has led the development of scientific products and tools from SWEPE outcomes. Nelson Mandela University supported long-term capacity development and field work. SWEPE was kindly supported by industry partners who helped to mobilise support for the survey and to connect the research teams with the landholders. SWEPE was supported by several provincial stakeholder structures who raised awareness about the project. Provincial governmental agencies provided support and facilitated the surveys of state protected areas.

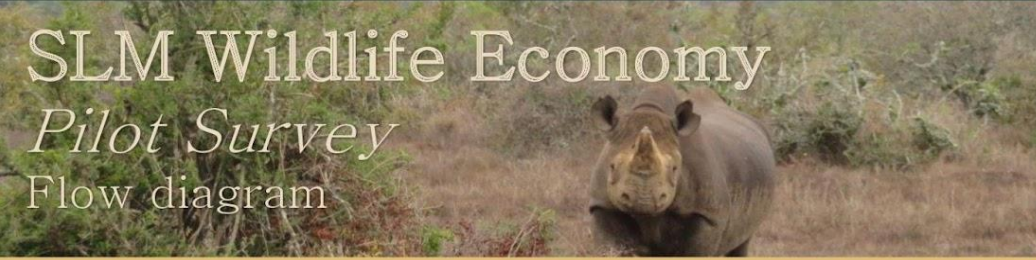
For more information on the SWEPE industry and institutional partners, please visit our website at [www.wildeconomy.org/about-the-project/partners-contributors](http://www.wildeconomy.org/about-the-project/partners-contributors).

# SWEP Rationale



The main objective driving SWEP is to establish and showcase the potential of the private wildlife ranching sector as viable contributors to South Africa's biodiversity economy. SWEP seeks to view wildlife ranching enterprises holistically and show how they contribute to sustainable development. To address the lack of science-practitioner-policy partnerships, SWEP also acts as a bridging agent/partner whereby the information gathered on the ground can be linked into ongoing policy development and implementation.

Together with informing on policies, this information can act as tools for the design of market-based incentives to assist the industry in terms of marketing, public awareness etc. With better informed policies, there can be better informed investment in infrastructure and capacity and skills development programmes to ultimately help expand the industry.



# SWEP survey format

(Co-designed with industry)



## Property information:

- Land use
- Land use challenges
- Sustainable land management



## Population management:

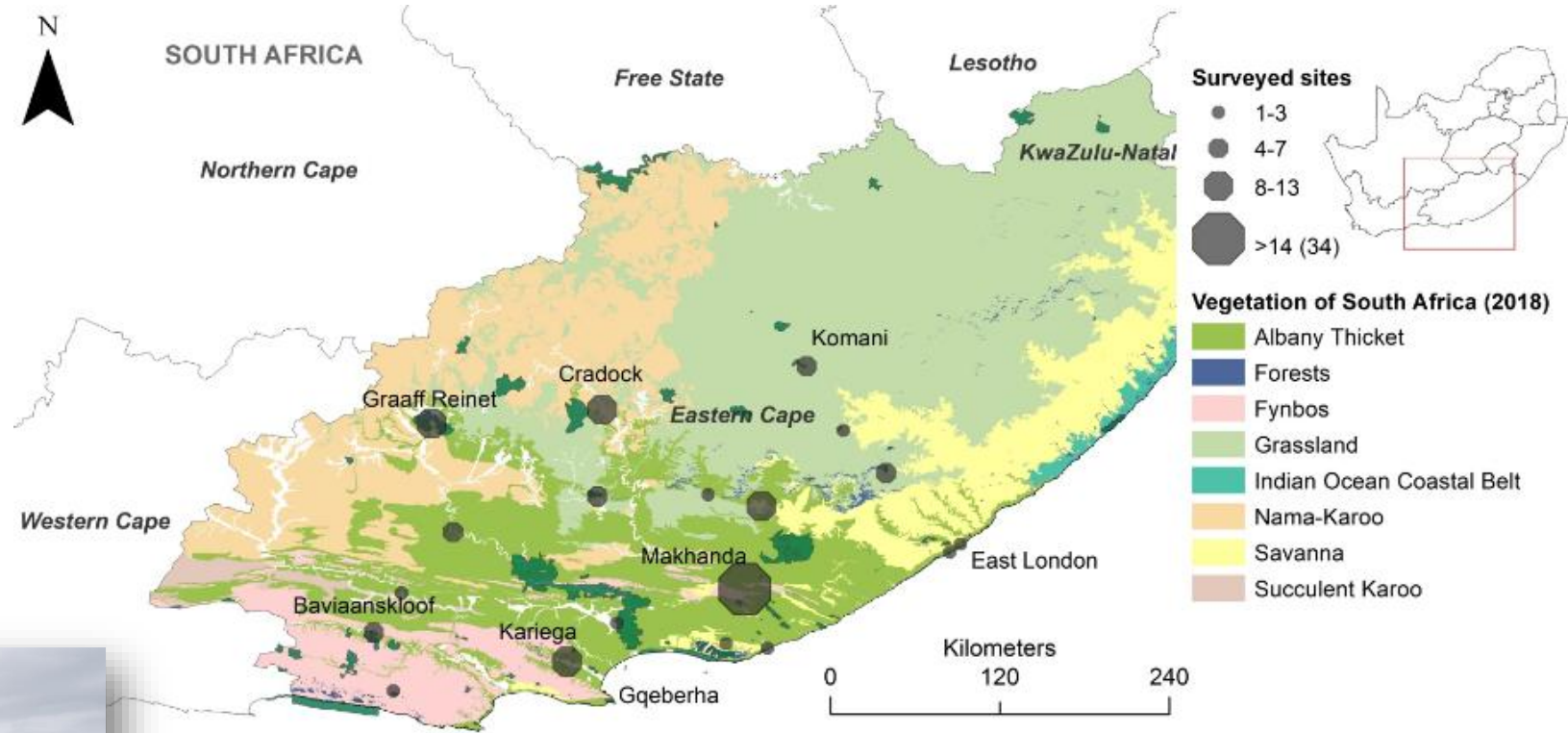
- Animal health
- Block systems
- Animal species



## Socio-economics:

- Revenue generating activities
- Employment
- Networks
- Adaptation & mitigation strategies

# Eastern Cape survey coverage (2021)



**137**

Surveys conducted

**936 K\***

Hectares assessed.  
\*553K on established  
ranches

**37**

Young people employed

# Limpopo survey coverage (2022)

155

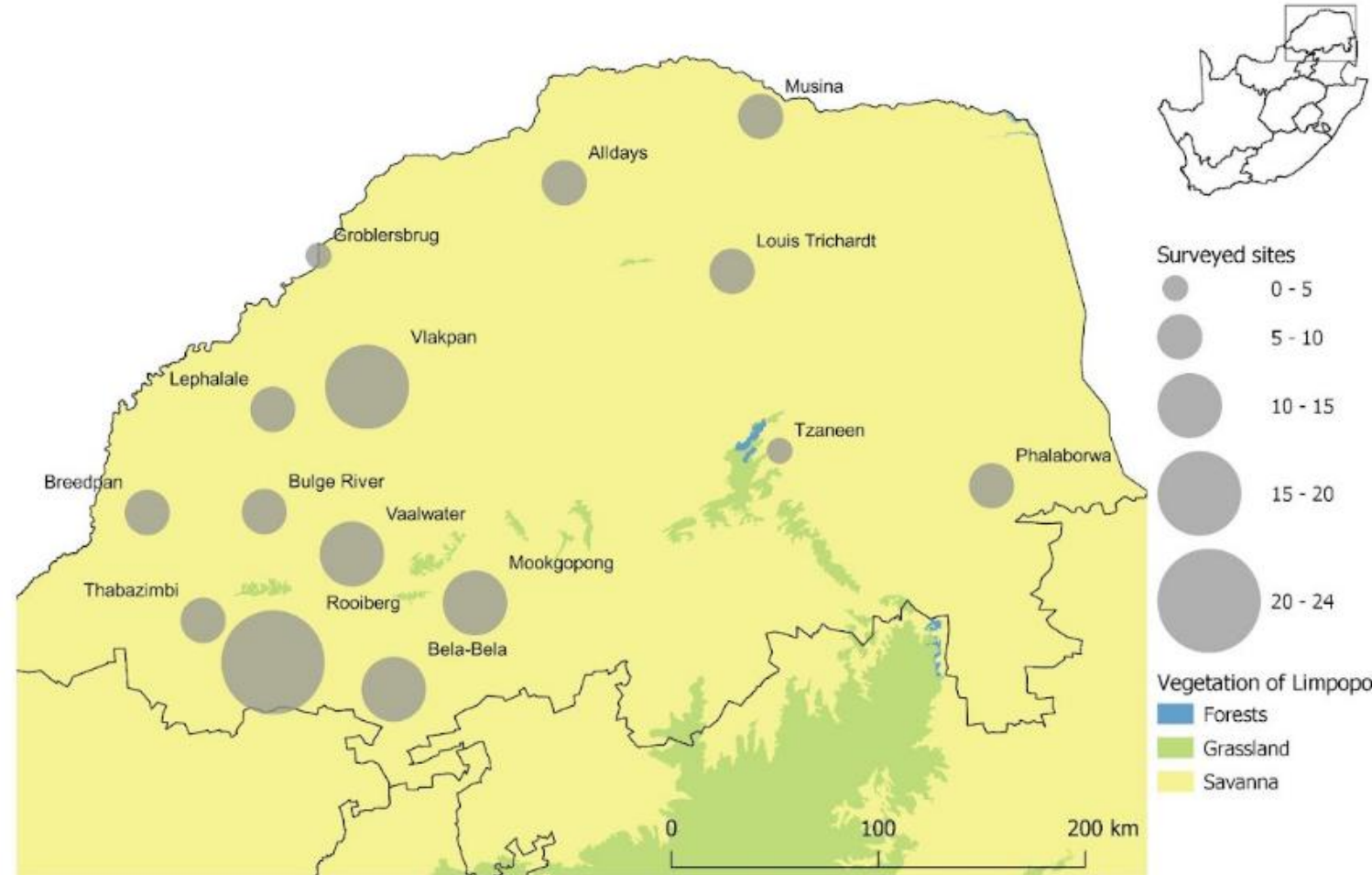
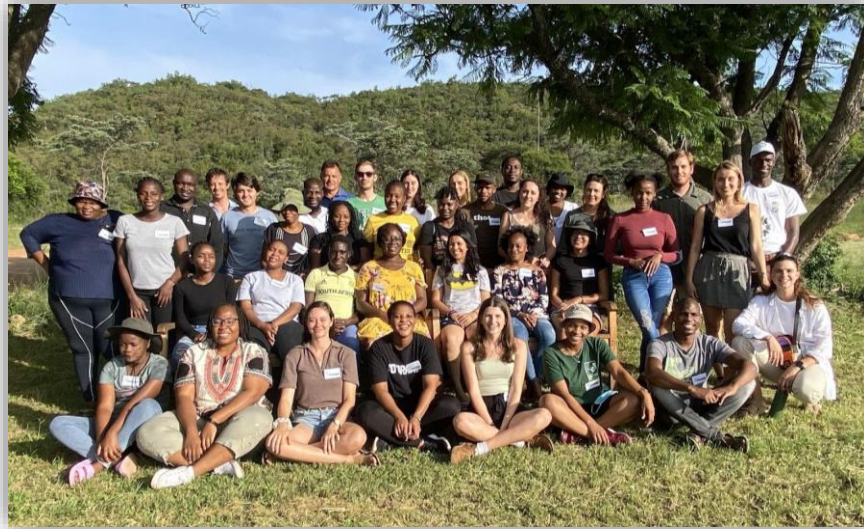
Surveys conducted

714 K\*

Hectares assessed.  
\*627K on established ranches

63

Young people employed



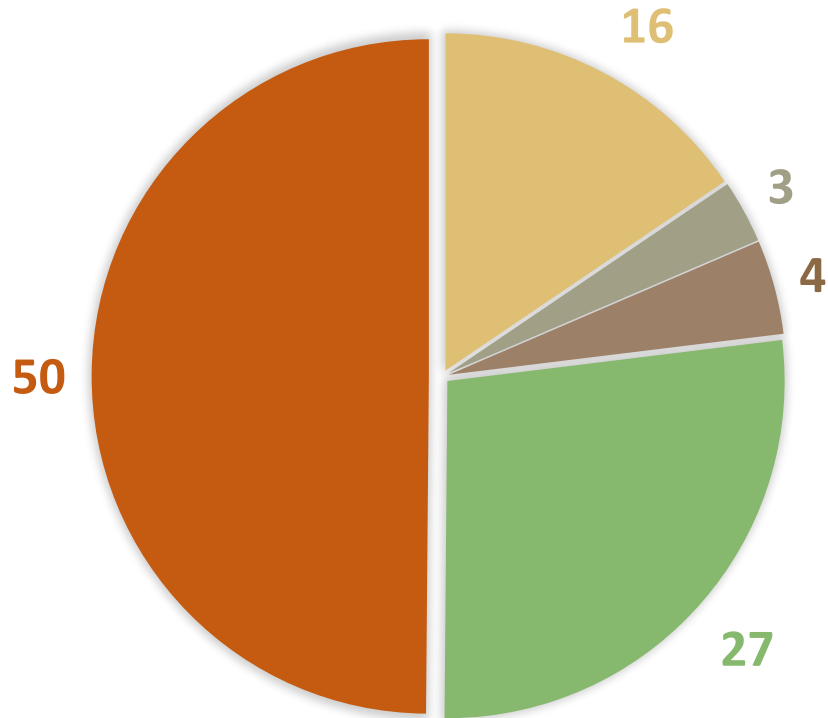
# Land categories for surveyed properties



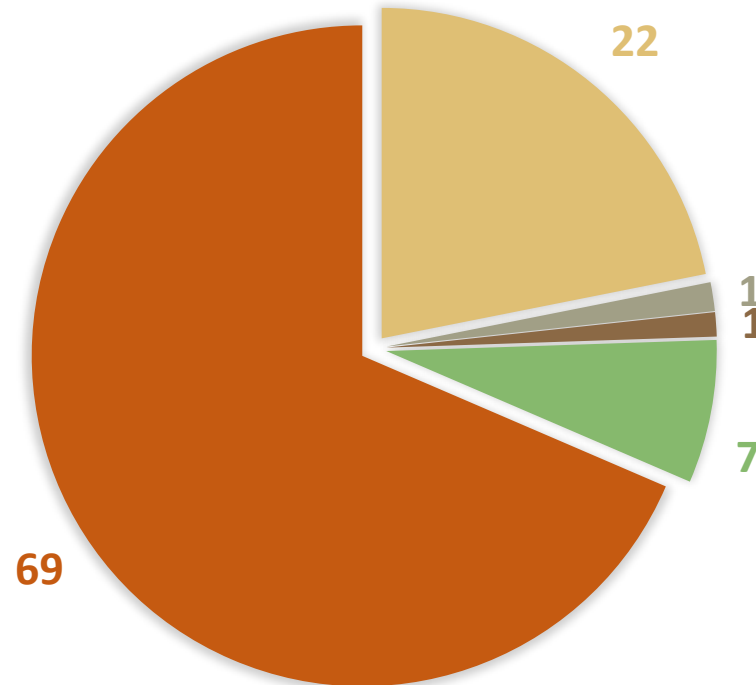
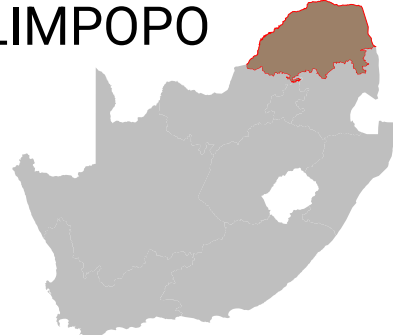
Land category	Eastern Cape total properties (ha)	Limpopo total properties (ha)
Wildlife ranch	552 544	625 544
State protected area	300 017	64 000
New market entrant ranch	50 092.89	10 800
Livestock farm	33 431	12 870
Conservancy	172 000	200 000

# Proportions (%) of surveyed property categories

EASTERN CAPE



LIMPOPO



- **Wildlife ranch**
- **State protected area**
- **New market entrant ranch**
- **Livestock farm**
- **Conservancy**

# Survey results






Below are the summarised survey results captured from wildlife enterprises. On all occasions where the results of the project have been reported, they have been done so in aggregate, for both the Eastern Cape and Limpopo ranches. It is not possible for anyone to identify your property from these results.



## Property information:

- Land use
- Land use challenges
- Sustainable land management

# Wildlife ranchers are using marginal agricultural land productively

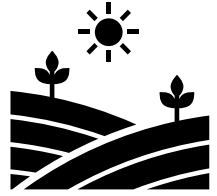
	Land use	Average INITIAL proportion (%) of properties	Average CURRENT proportion (%) of properties
	Cultivated lands	3,4	0,9
	Old fields	3,8	6,2
	Planted pastures	1,7	1,9
	Natural rangelands	88	90
	Wetlands	0,7	1,0

## Key messages:

Wildlife ranches transformed cultivated lands to more natural habitats.

Sometimes pastures are planted to increase fodder production.

Old fields are a management tool to sustain herds and mitigate overutilisation of natural veld.



# Old Fields

Reason for value	% of properties
Fodder	56
Potential to support ecological & habitat health	14
Game viewing	10
Lambing camps	6
Supports hunting	3
Sense of place, beauty	3
Supports game capture	1

## Key messages:

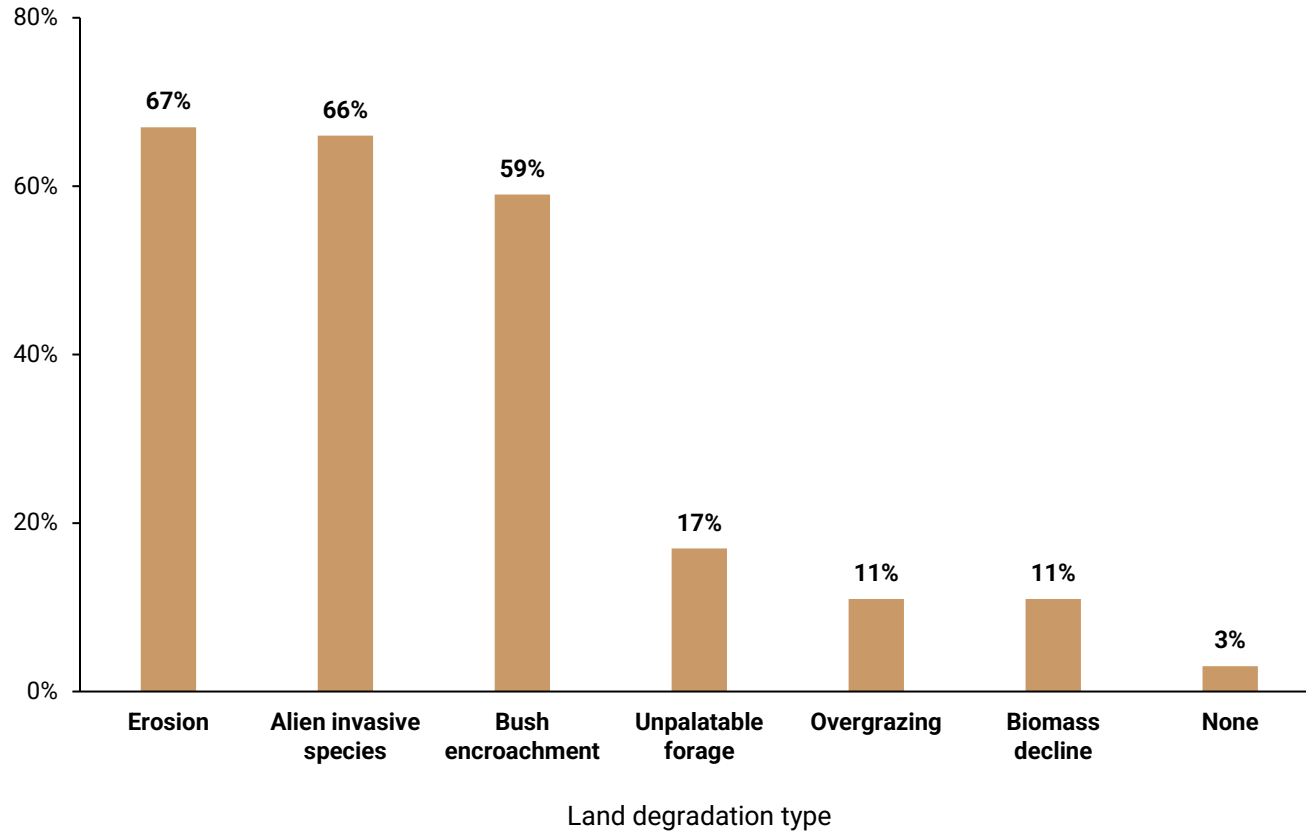
Wildlife ranchers value old fields and apply land improvement measures to previously degraded land.

88% of ranchers expressed that they valued their old fields. Most valued it for fodder production (56%), followed by ecological & habitat health (14%).

Ranchers that did not value old fields cited unproductive land uses (6%), too small to be suitable habitat (4%) and poor aesthetics (1%).

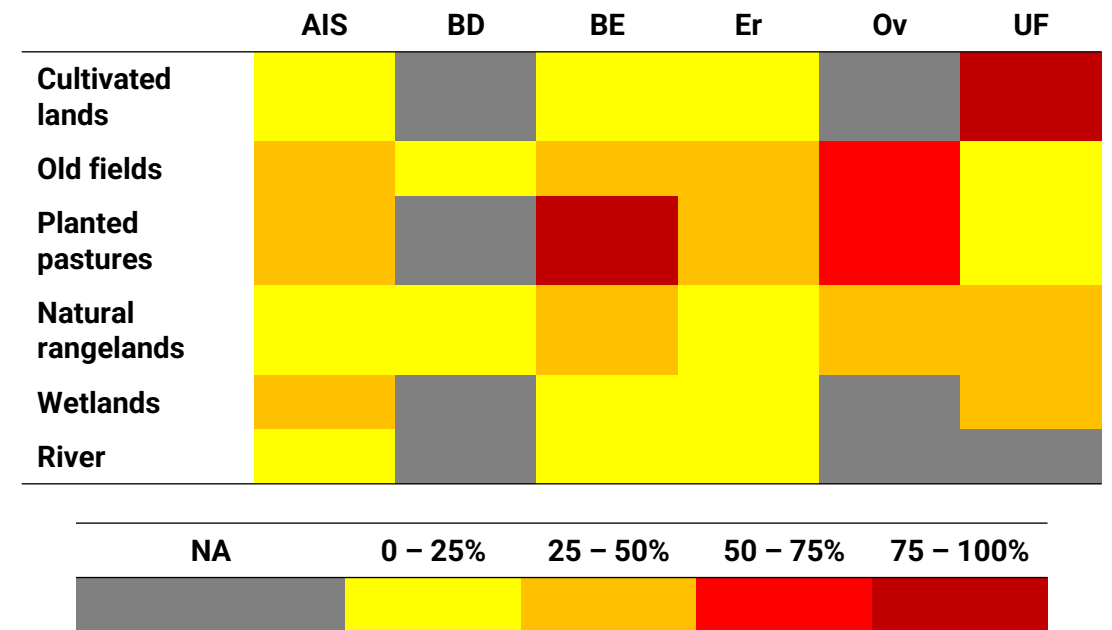
Old fields are productive land-uses for the wildlife economy and a key regulatory link between NEMBA and CARA. In a study on a subset of Eastern Cape ranches, ranchers performed an average of 4.4 economic activities on old fields.

# Wildlife ranchers are addressing key challenges, such as erosion, alien invasive species and bush encroachment



Percentage of surveyed wildlife properties (225) that reported the presence of different land management challenges.

Average percentage of property extent of different land use types covered by different land management challenges (**AIS** = Alien Invasive Species, **BD** = Biomass Decline, **BE** = Bush Encroachment, **Er** = Erosion, **Ov** = Overgrazing, **UF** = Unpalatable Forage). Degree of challenge indicated.



# Wildlife ranchers invest extensively in sustainable land management measures

## Land Improvement Activities

**AIS & Bush  
encroachment  
Management**

Chemical, mechanical and manual removal, biocontrol, use of fire and herbivores (e.g. elephants and Prickly Pear)

Brush packing and packing of other materials, dams and weirs, gabions, micro-ponding, fencing, walling, silt traps & contouring

**Structural  
Erosion  
Control**

**Vegetative &  
Agronomic  
Measures**

Soil treatment to improve fertility, transplanting (e.g. Spekboom, in the Eastern Cape), reseeding & planting of native grasses, ripping and ploughing

Stock density management, grazing management, water management, controlled burning, supplementary feeding, kraaling

**Veld & Fire  
Management**

# Wildlife ranchers invest extensively in sustainable land management measures

97%

Properties that invest in land improvement measures

87%

Properties that invest in addressing AIS and Bush Encroachment

48%

Properties that invest in Structural Erosion Control

69%

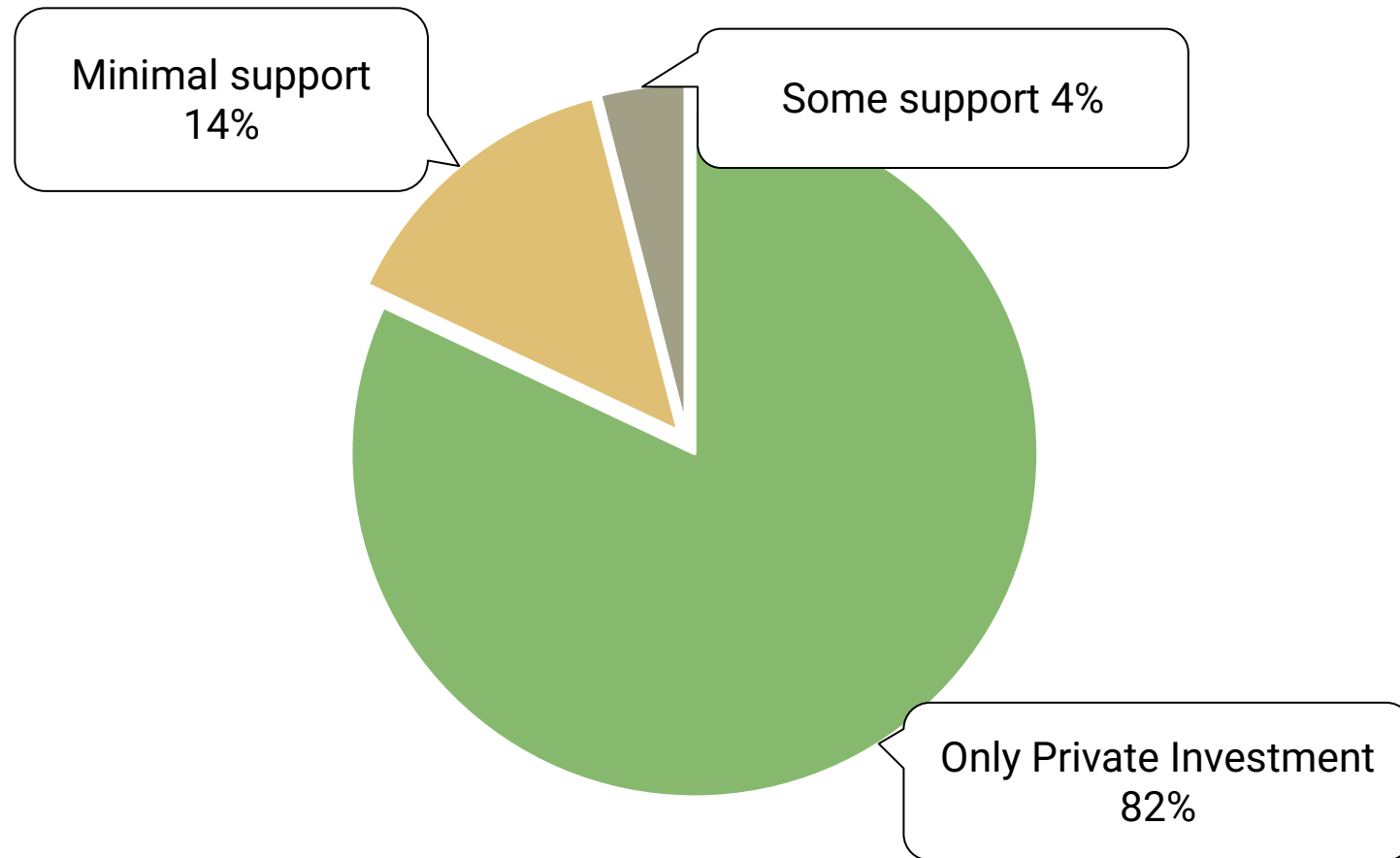
Properties that invest in more than one land improvement activity

## Key messages:

97% of wildlife ranchers invest in Sustainable Land Management (SLM) improvements, typically on over a third of their property extent.

Ranchers invest in clearing alien species and woody encroachers (87%). Most ranchers invest in multiple SLM activities.

# Wildlife ranchers invest continually in sustainable land management activities

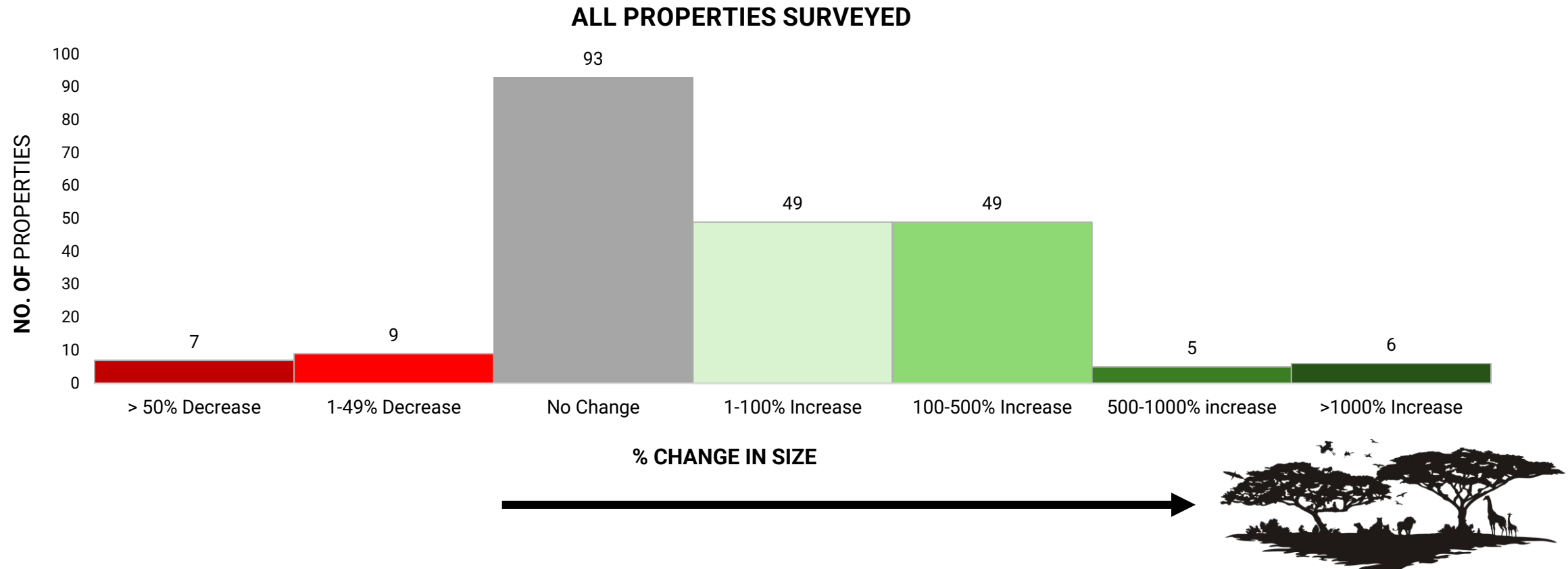


## Key message:

Most ranchers receive either no (82%) or very minimal (14%) external support for implementing sustainable land management. This represents a significant private investment into public goods (ecosystem services).

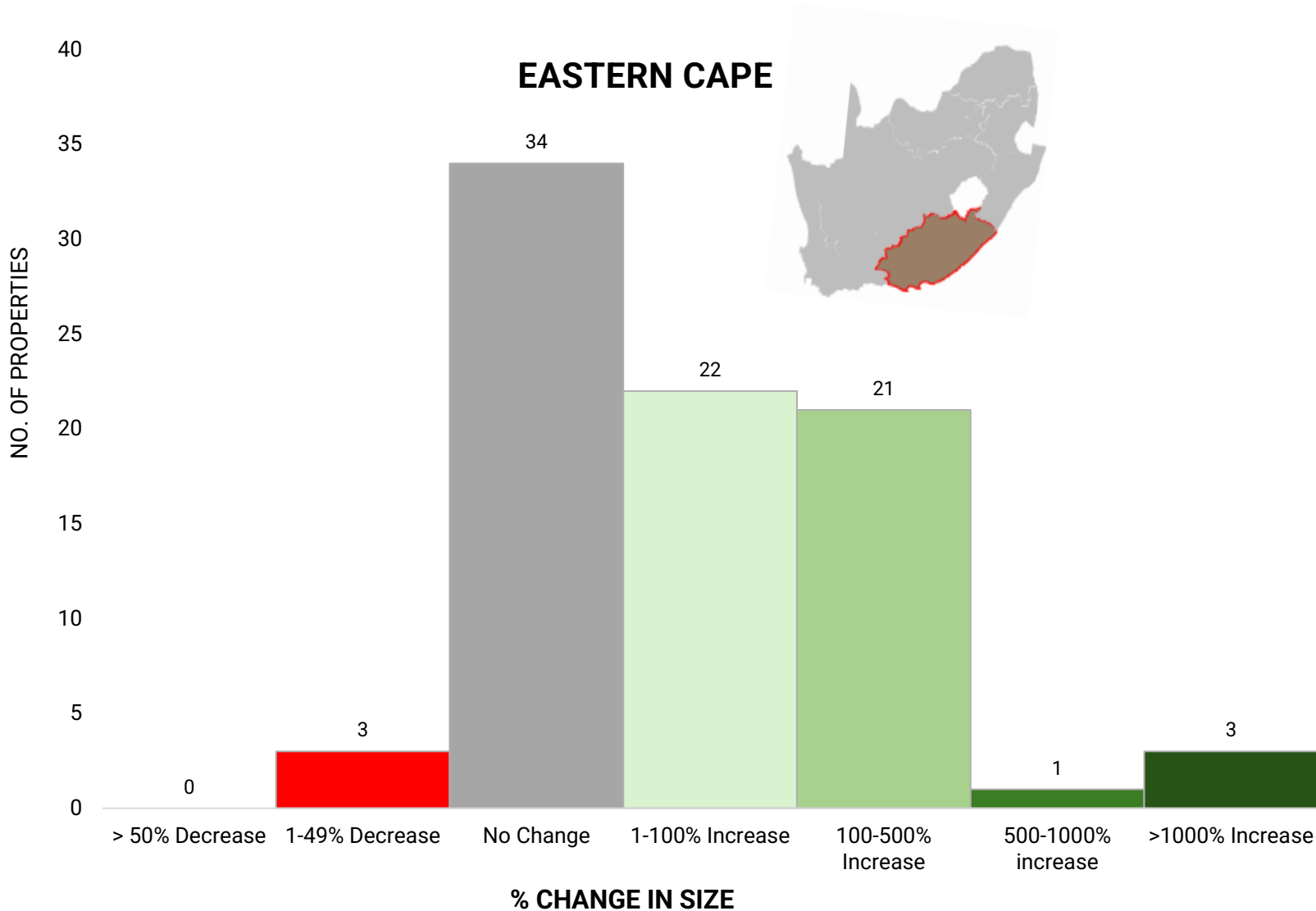
*Percentage of properties that receive some, minimal (once-off support, >5 years back) or no support for sustainable land management activities.*

# Wildlife ranching industry increases extent of natural habitat



With an increase in property size, the extent of natural habitat also increases. Overall, 47% properties increased in size since establishment whereas 46% had no change and 7% decreased in size.

# Wildlife ranching industry increases extent of natural habitat

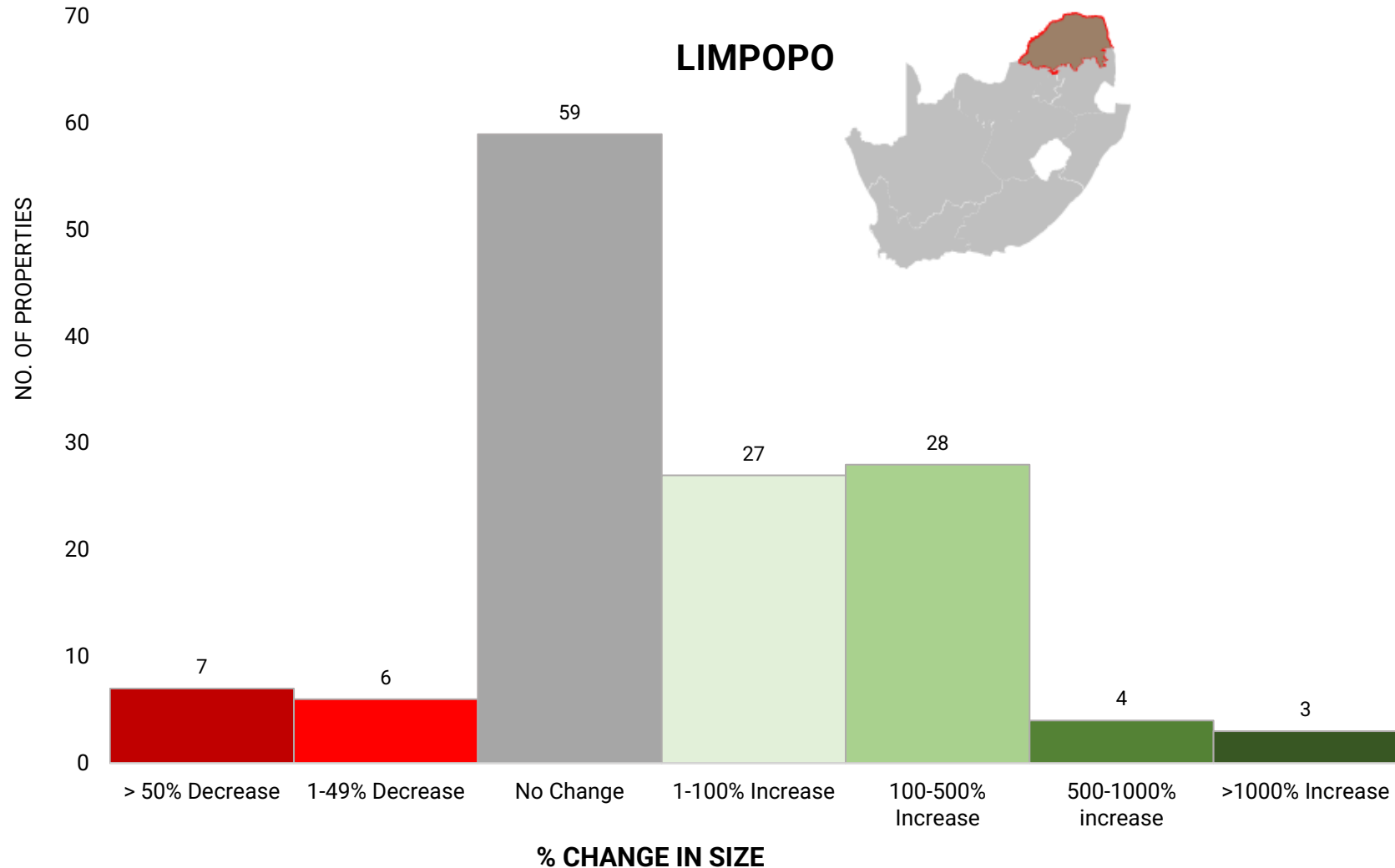


## Key messages:

The average wildlife property size surveyed in the Eastern Cape was 6256,90 ha, with a typical size of 2847 ha. The largest property surveyed was 50 000 ha, and the smallest property was 90 ha.

In the Eastern Cape, 56% of properties increased in size, 40% did not change, and 4% decreased in size.

# Wildlife ranching industry increases extent of natural habitat

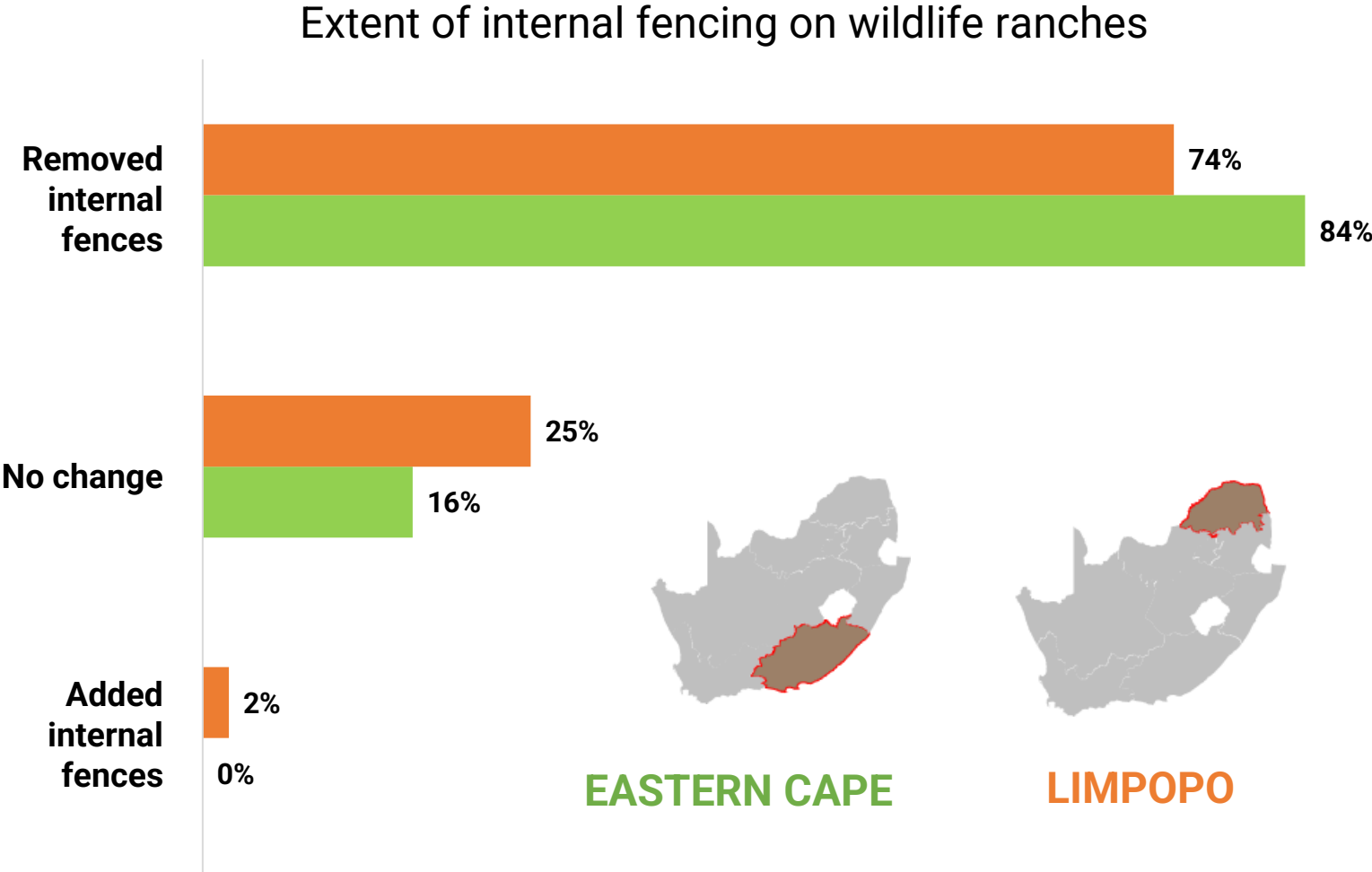


## Key messages:

The average wildlife property size surveyed in Limpopo was 4267,20 ha, with a typical size of 2000 ha. The largest property surveyed was 48 000 ha, and the smallest property was 21 ha.

In Limpopo, 46% of properties increased in size, 44% did not change, and 10% decreased in size.

# Wildlife ranching industry increases extent of natural habitat



## Key messages:

76% of wildlife ranches surveyed removed internal fences since conversion to wildlife.

200 properties, comprising 1 042 014 ha, removed a total of 15 727 km of internal fences.

Typically, properties removed 15 km (half within a range of 2.2-75 m) of internal fences, or 7.6 m (1-20 m) per ha.

The removal of internal fences contributes to the restoration of previously fragmented landscapes.

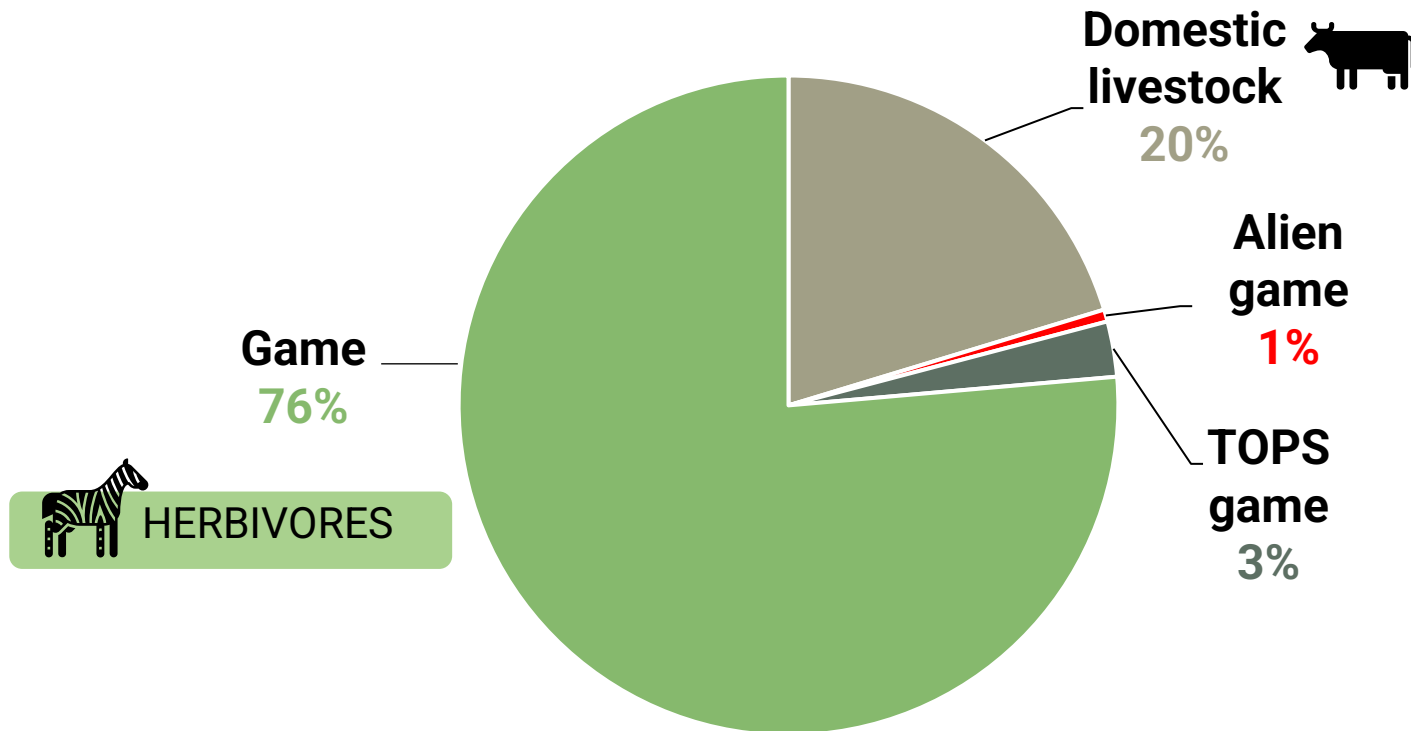
# Survey results



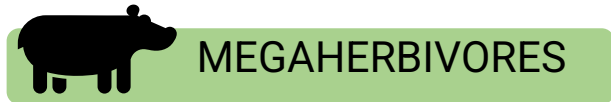
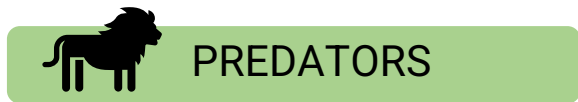
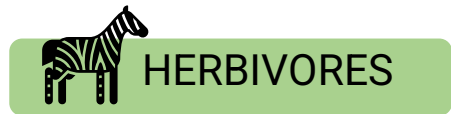
## Population management:

- Animal species
- Block systems

# Wildlife ranches support abundant and diverse wildlife species



Average proportional abundance (%) of species within surveyed wildlife properties (275).  
Most common species: impala, kudu, nyala, waterbuck, zebra, eland, giraffe



62% of properties have large predators (lion most common, followed by spotted hyaena and leopard)

21% of properties have megaherbivores (hippo most common, followed by white rhino, elephant and black rhino)

## Key messages:

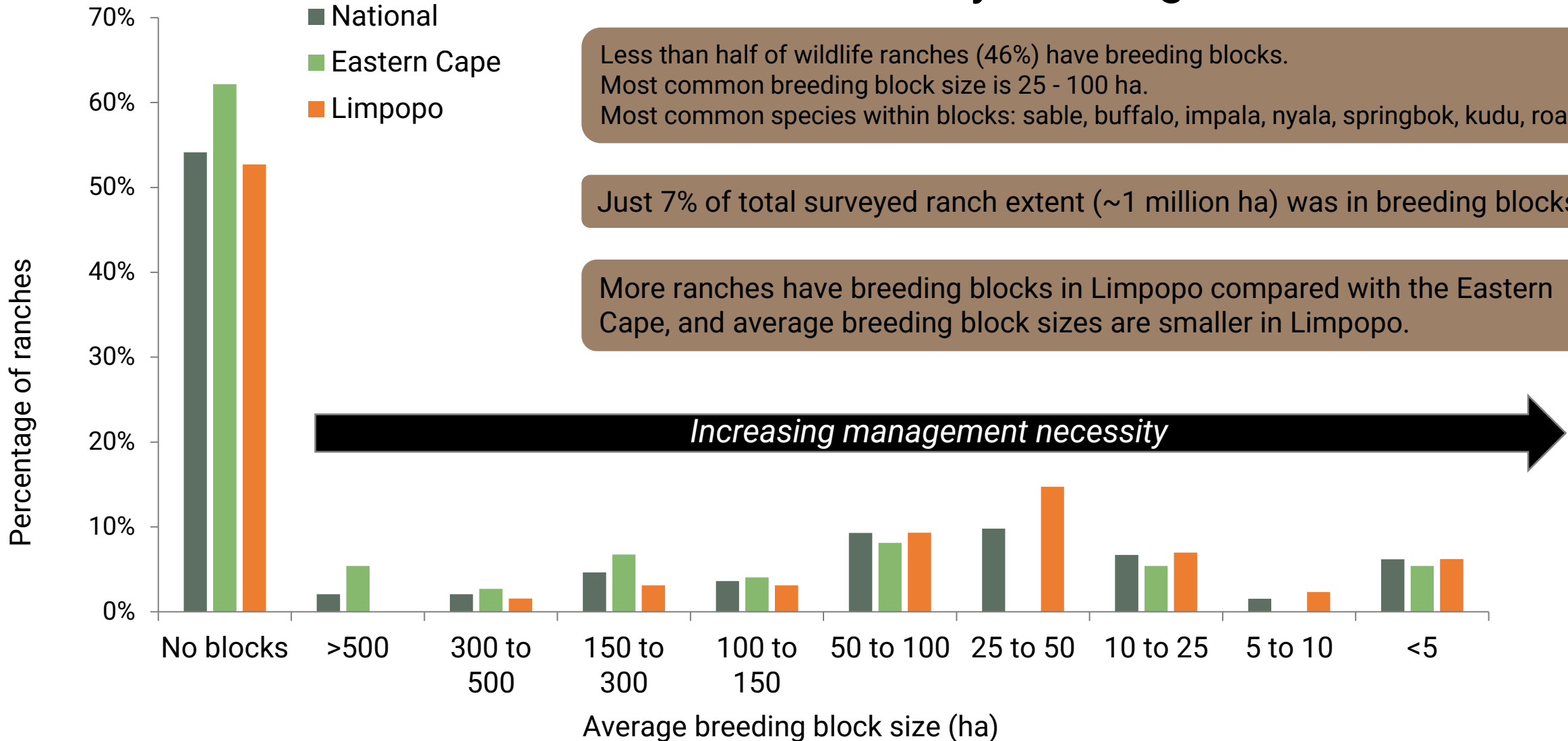
Compared to state protected areas, wildlife ranches support higher species richness and more threatened species per unit area.

ToPS listed and alien species make up a small percentage of overall wildlife abundance on wildlife ranches.

Wildlife ranches conserve significant numbers of wildlife species, including predators and mega-herbivores.

# Most wildlife ranches are managed extensively

## Key messages:



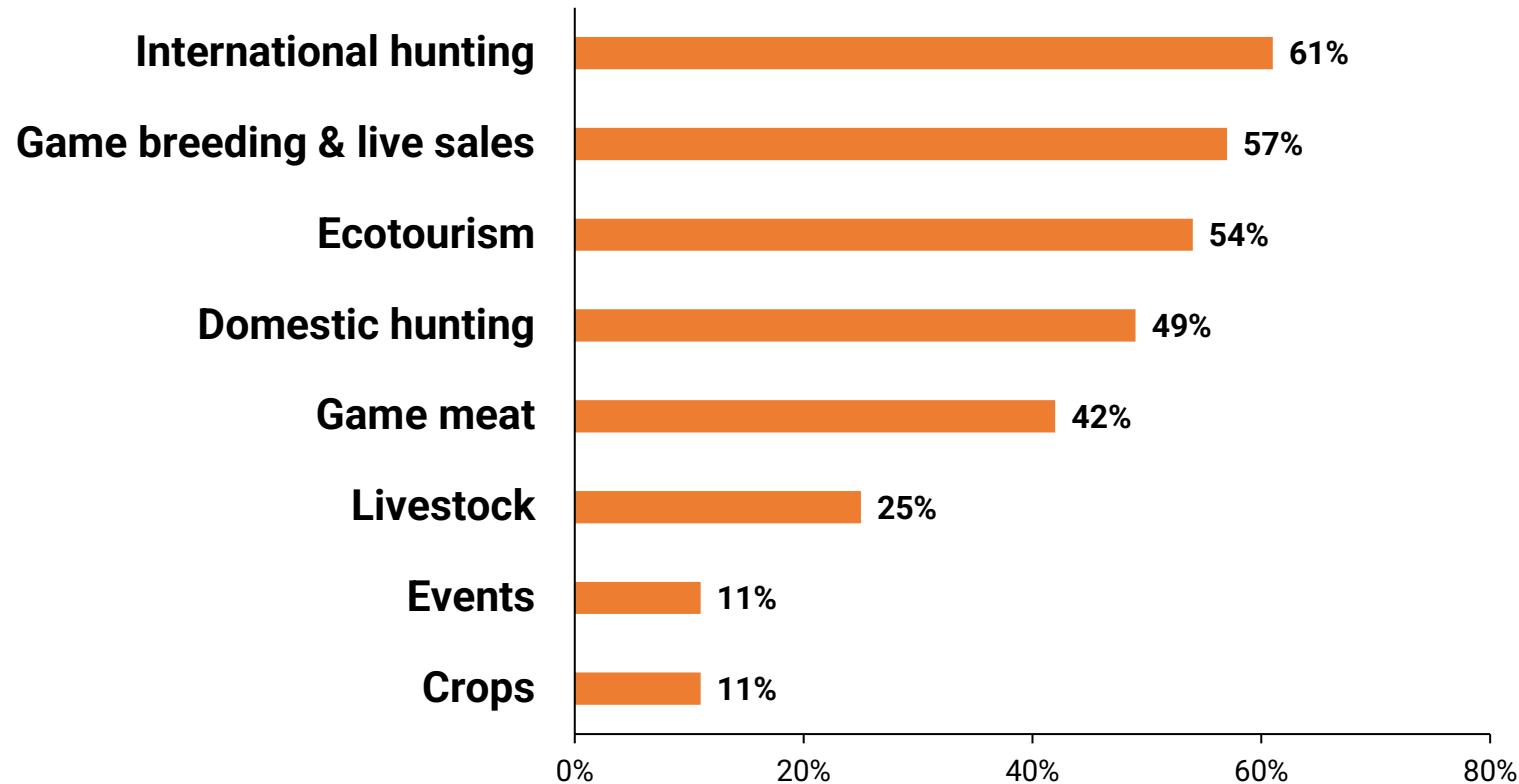
# Survey results



## Socio-economics:

- Revenue generating activities
- Employment
- Socio-economic benefits

# International hunting and wildlife-based tourism are key economic drivers



Percentage of surveyed wildlife properties surveyed (192) conducting different economic activities.

**'International hunting'** includes standard and outfitter. **'Ecotourism'** includes both day and overnight visitors to surveyed (private) ranches. **'Livestock'** includes cattle, sheep and goats. **'Crops'** comprise of both rainfed and irrigated cash crops, as well as fodder production and nursery.

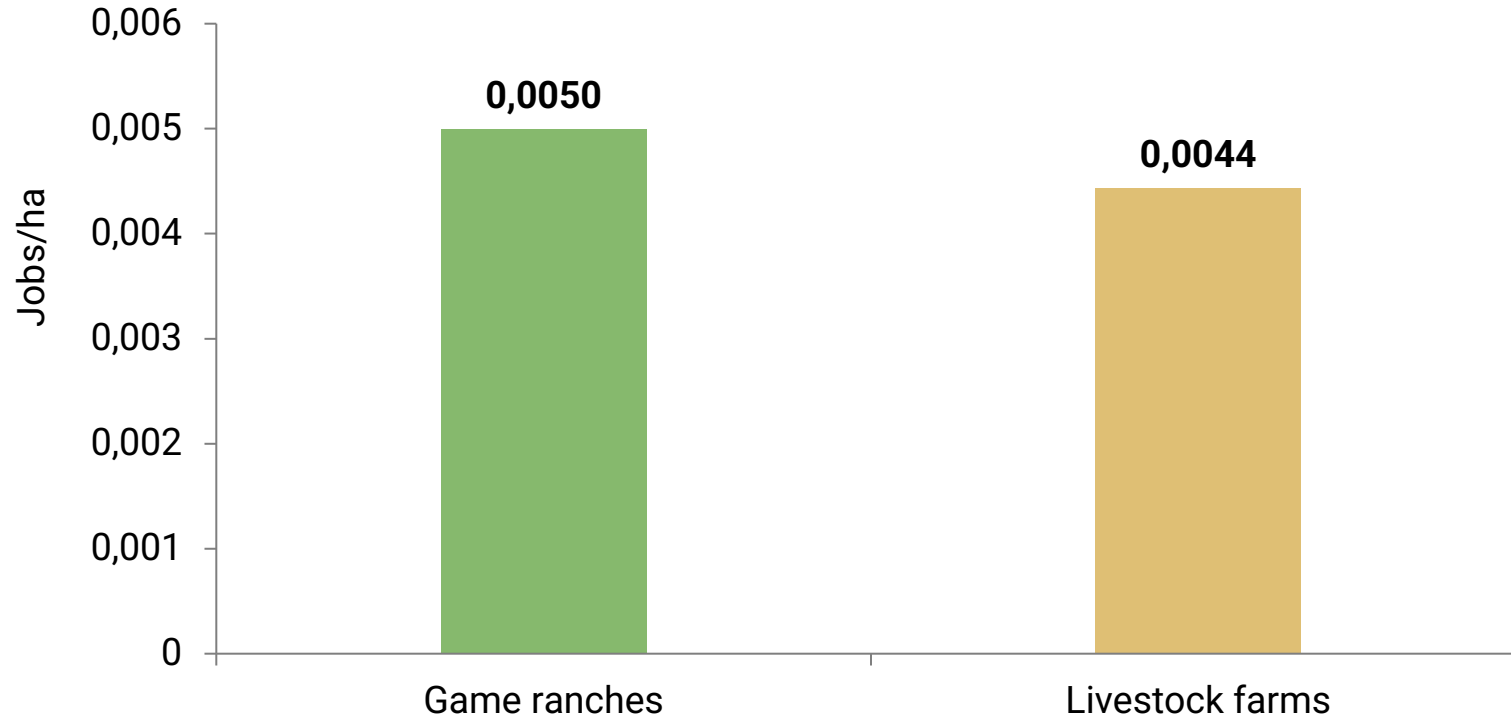
## Key messages:

International hunting is the largest contributor to revenue and thus very important for making the wildlife economy (and habitat conservation) viable.

There is potential for domestic hunting and game meat production to be significantly upscaled with the right infrastructure and marketing investment.

International hunting is the main revenue across 380 000 ha of surveyed land, while ecotourism is the main revenue across 220 000 ha and breeding is the main revenue over 120 000 ha.

# Wildlife ranching creates significant employment



## Key messages:

Wildlife ranches provide more job opportunities per hectare than livestock farms. Ecotourism ranches provide the most jobs (0.011/ha), while other ranches are more comparable with livestock farms.

Wildlife ranches employ a high proportion of permanent workers and a high proportion of female employees, which contributes to various targets under the Sustainable Development Goals.



Permanent jobs:  
(as % of total jobs)

79%

61%



Female jobs:  
(as % of permanent jobs)

41%

34%

# Wildlife ranching contributes additional socio-economic benefits

Non-salary benefit	Description	% of properties
Housing	Free on-site or off-site accommodation	83
Food	Game meat rations, groceries, meals, farm produce	75
Rates	Water and electricity	41
Transport	Transport between farm and town, fuel for personal vehicles	35
Uniforms	Uniforms, other clothing	23
Other	Wood, Wi-Fi, cell phones/airtime, TV, appliances, laundry service	15
Financial insurance	Pension, provident fund, funeral benefits, medical benefits, Unemployment Insurance Fund (UIF) contributions	13
Gratuities	Gratuities/tips	9
Upskilling	Training, education of employees or their children	9

## Key message:

Wildlife ranches commonly provide many additional benefits to their employees. Most ranches provide housing and contribute to food security.

# **SWEP outputs**



## **Knowledge products:**

- Published journal articles
- Popular news articles
- Social media presence

# SWEP outputs



## JOURNAL ARTICLES

[Lessons from COVID-19 for wildlife ranching in a changing world.](#) *Nature Sustainability*

[The diverse socioeconomic contributions of wildlife ranching](#) *Conservation, Science and Practice*



## NEWS ARTICLES

[South Africa's wildlife ranches can offer solutions to Africa's growing conservation challenges.](#) *The Conversation*

[South Africa's conservation model: why expanding the use of biodiversity to generate money is a good idea.](#) *The Conversation*



## MEDIA



## [WEBSITE](#) [SOCIAL MEDIA](#)



We want to thank each landholder who participated in the SWEP survey. Your invaluable contribution plays a pivotal role in making the case for the wildlife economy.





SWEP continues to generate knowledge that will help design sustainable, innovative and inclusive wildlife economies in South Africa.

