

THE SCIENCE OF ENVIRONMENTAL COMPLIANCE: EVIDENCE-BASED ACTIONS FOR EMIS

10TH ENVIRONMENTAL COMPLIANCE AND ENFORCEMENT LEKGOTLA | 18 – 21 NOVEMBER 2024 | KZN

AN EYE IN THE SKY

Early detection and rapid response to illegal traderelated wildlife poisoning throughout southern Africa.







Call centre: +27 86 111 2468 www.dffe.gov.za











WHY VULTURES?

Vultures are irreplaceable within an ecosystem, something many people still do not realise

SOUTH AFRICAN SAVANNAH VULTURE SPECIES













































61%

WHAT THREATENS AFRICA'S VULTURES?

Percentages are only representative reasons for recorded deaths. Other important threats, as yet hard to quantify, such as habitat reduction, disturbance at nesting sites and reduced food availability are not illustrated



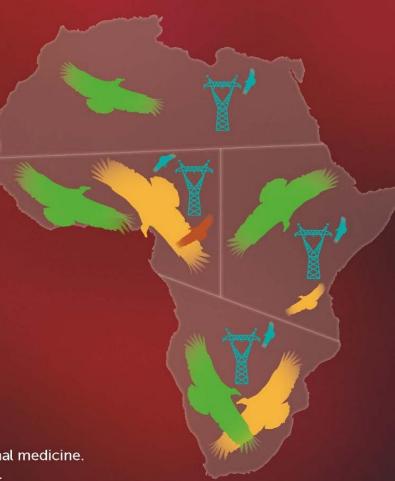
POISONING

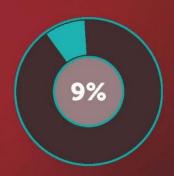
- Poisoning as a result of human-wildlife conflict where vultures are incidental victims.
- Intentional poisoning by ivory poachers not wanting to be found by rangers.



PERSECUTION

- > For body parts used in traditional medicine.
- Also involves the use of poison.





ELECTROCUTION & COLLISION

With poorly-planned
powerlines,
windfarms and roads.
Increasing threat

Increasing threat with investment in development.



OTHER RECORDED KILLING

People are potentially eating poisoned vultures.



What are the threats?





AN EYE IN THE SKY

The application of vulture tracking data as a way of detecting poisoning and feeding events.

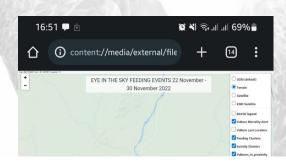




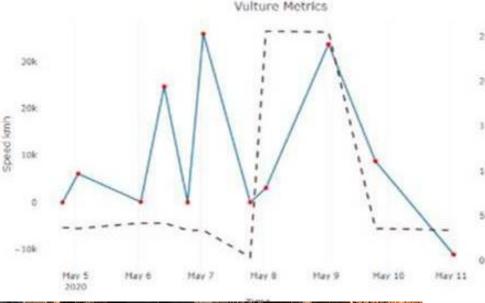


EARLY DETECTION OF POISONING EVENTS

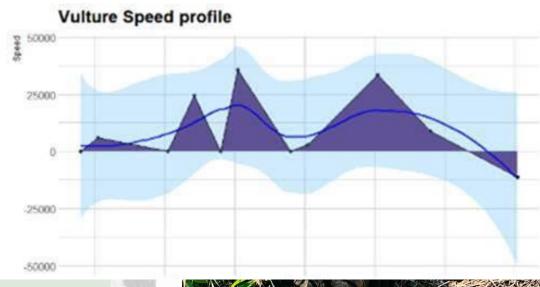




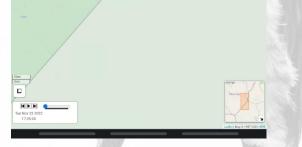




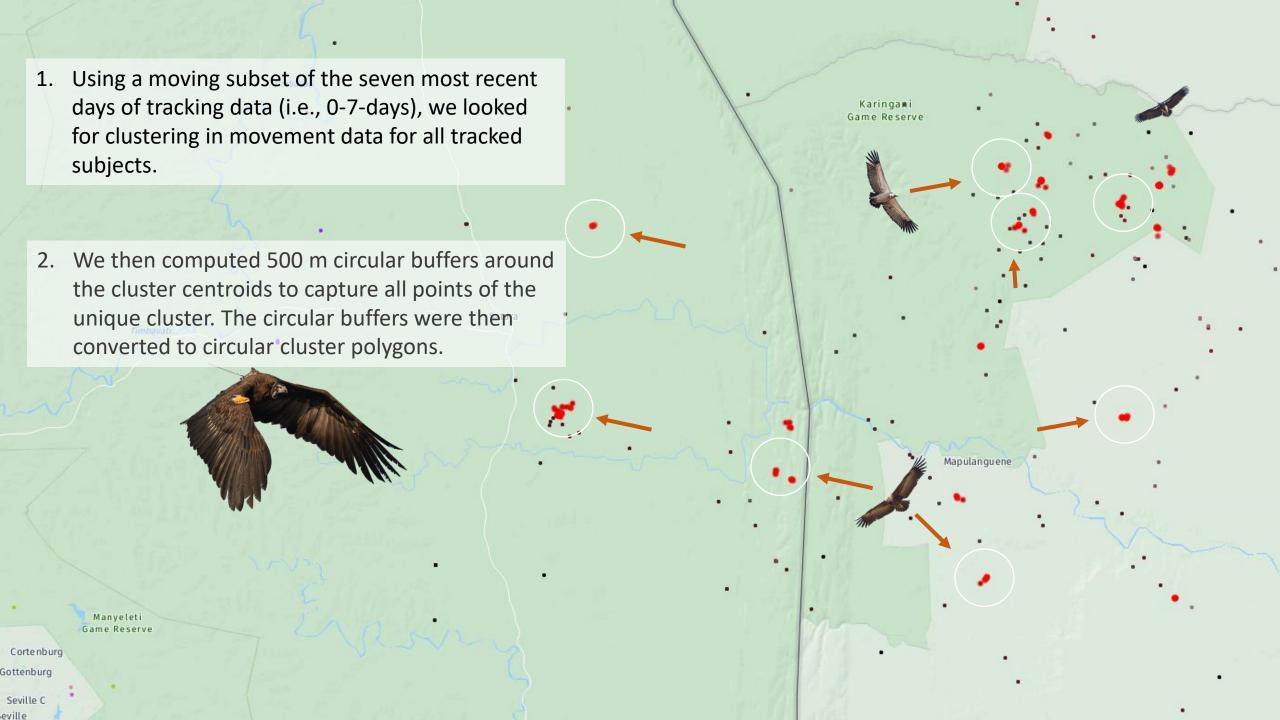


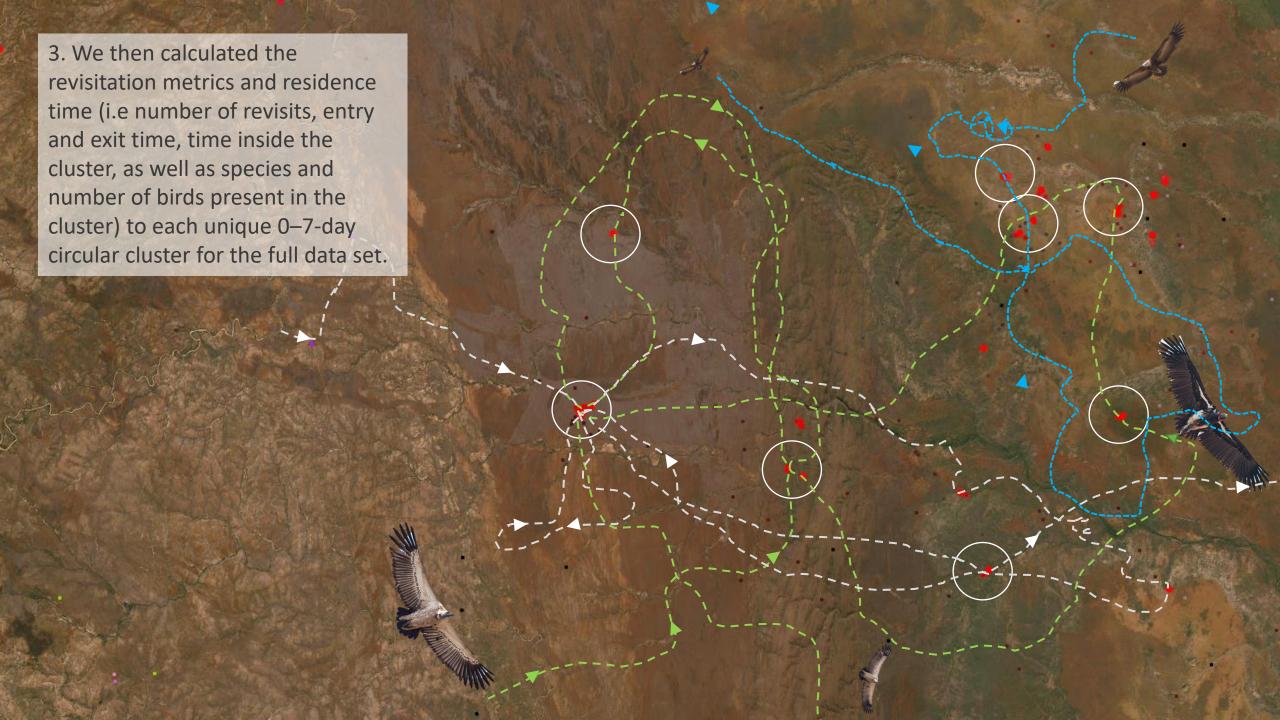


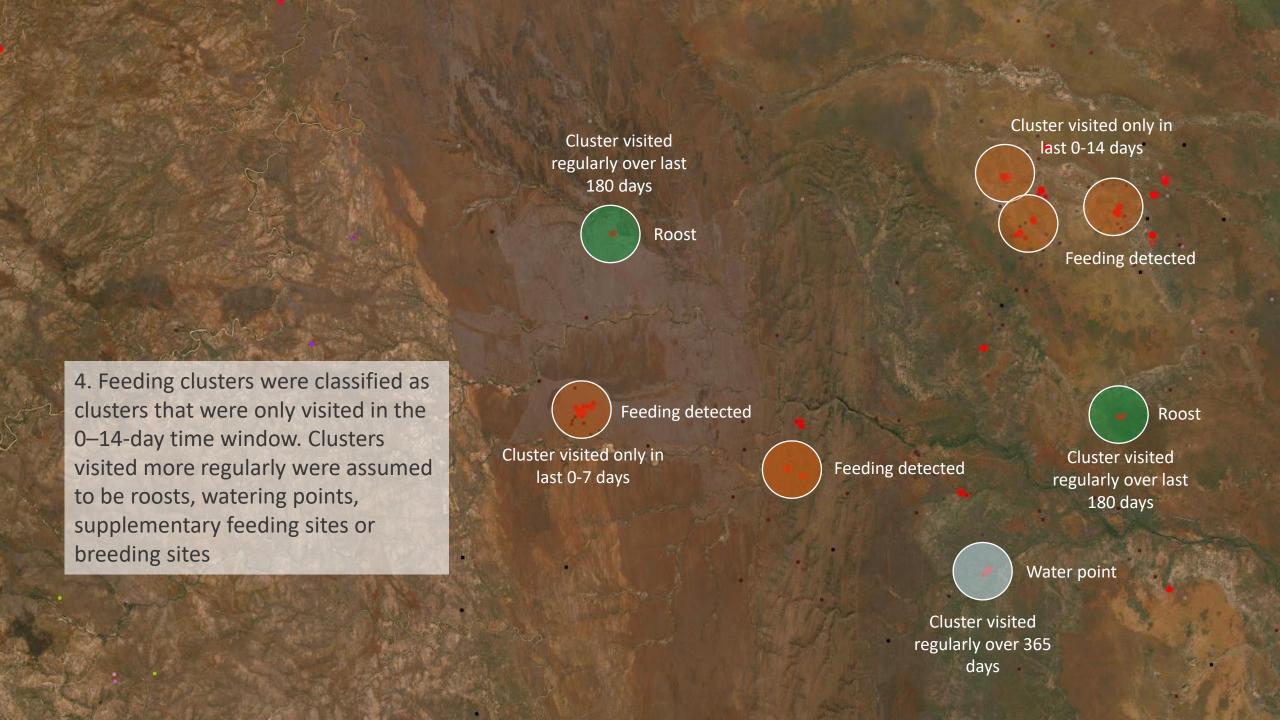














Red - 54,236

Amber – 33,305

Green - 16,671

Grey - 1,034

Total Alarta



JANUARY 2023 AUGUST 2024

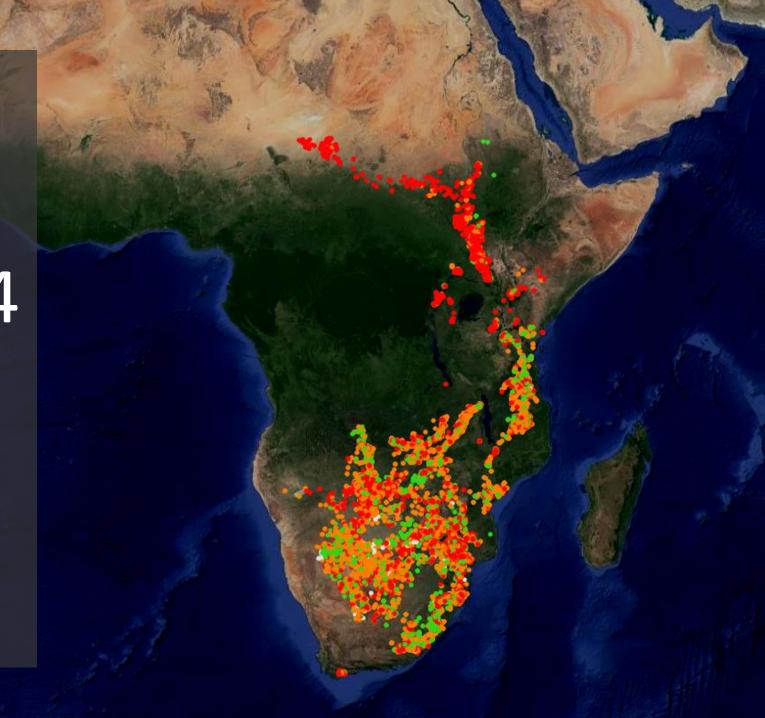
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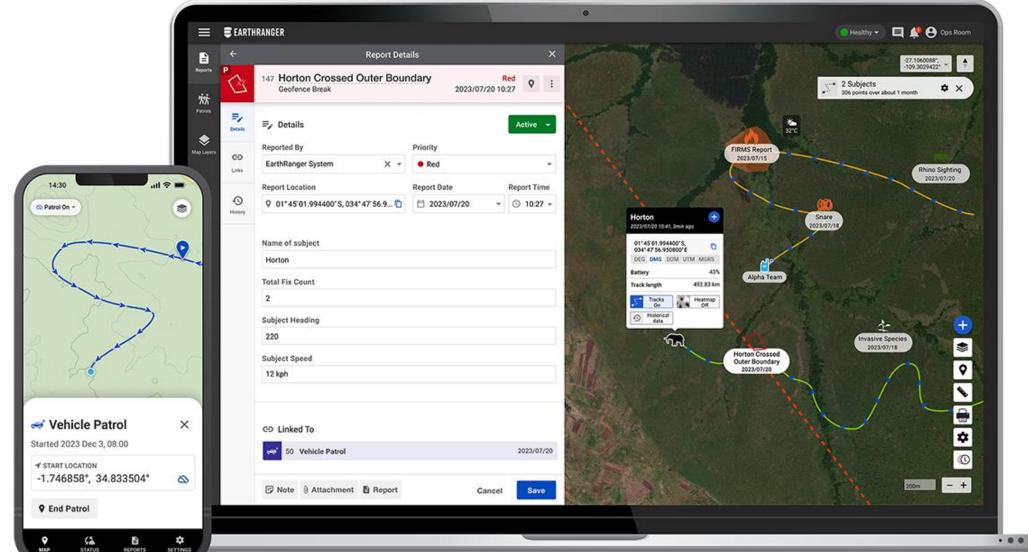
Green - 16,671

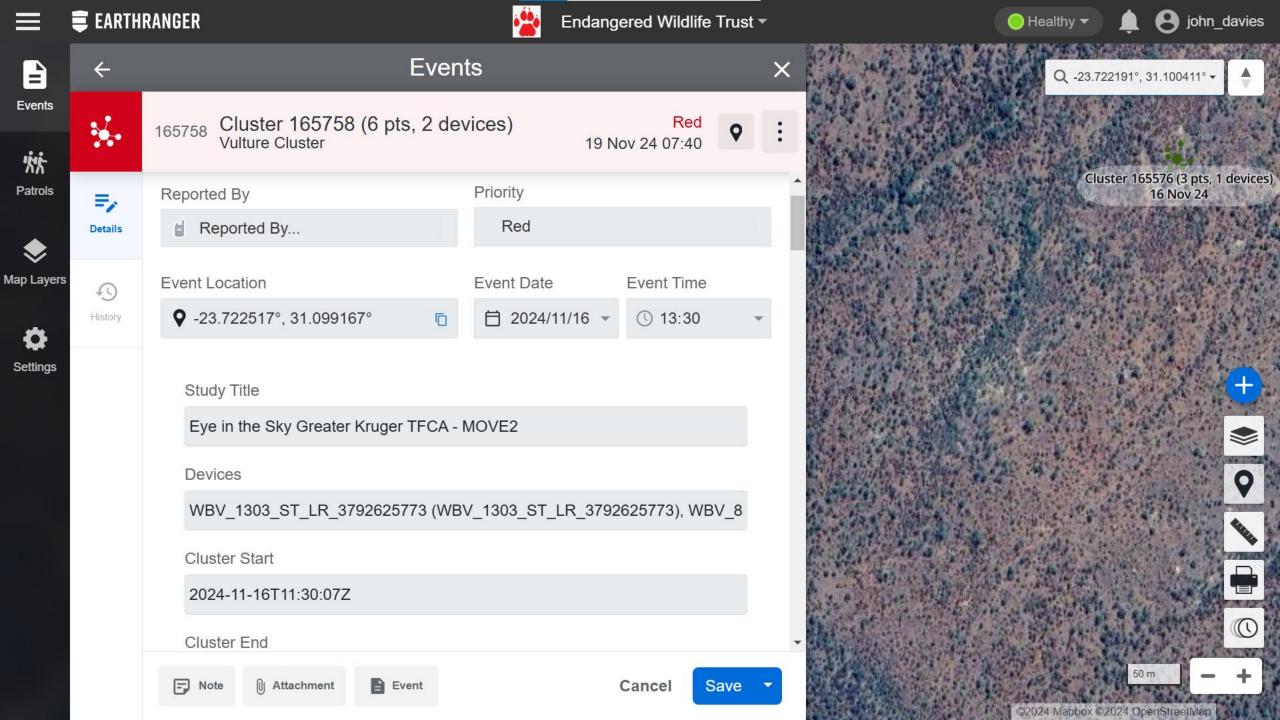
Grey - 1,034

Total Alarta











SNARING & POISONING

The link between snaring and wildlife poisoning is clear, and can lead to catastrophic impacts

POISONING TIMELINE

Poacher sets snares







Animal killed in snare







Meat taken

from carcass





Carcass laced with poison





Poisoning of target or non-target species



BY ACCELERATING THE SPEED OF DETECTION FOR SNARING SITES, IT AFFORDS A CHANCE TO FIND POISONING EVENTS EARLIER, OR EVEN STOP THEM FROM





LETABA RANCH GAME RESERVE

Understanding the threat landscape and developing solutions for the long-term recovery



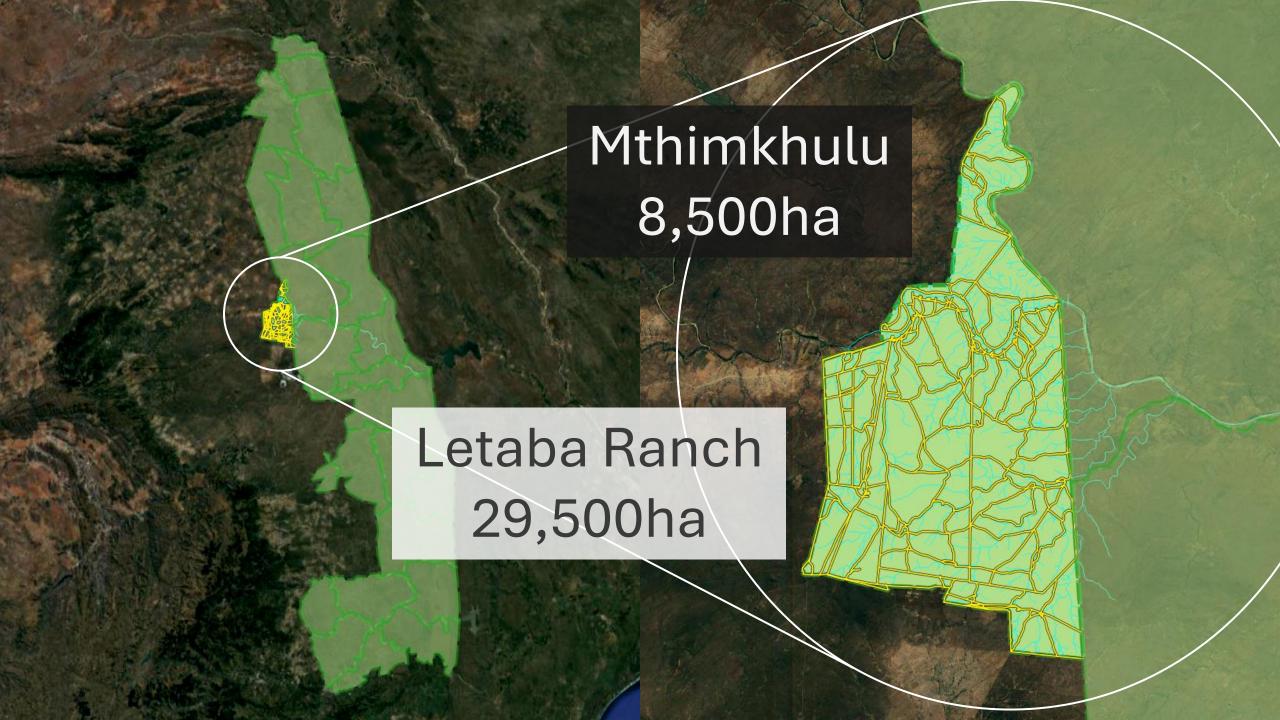


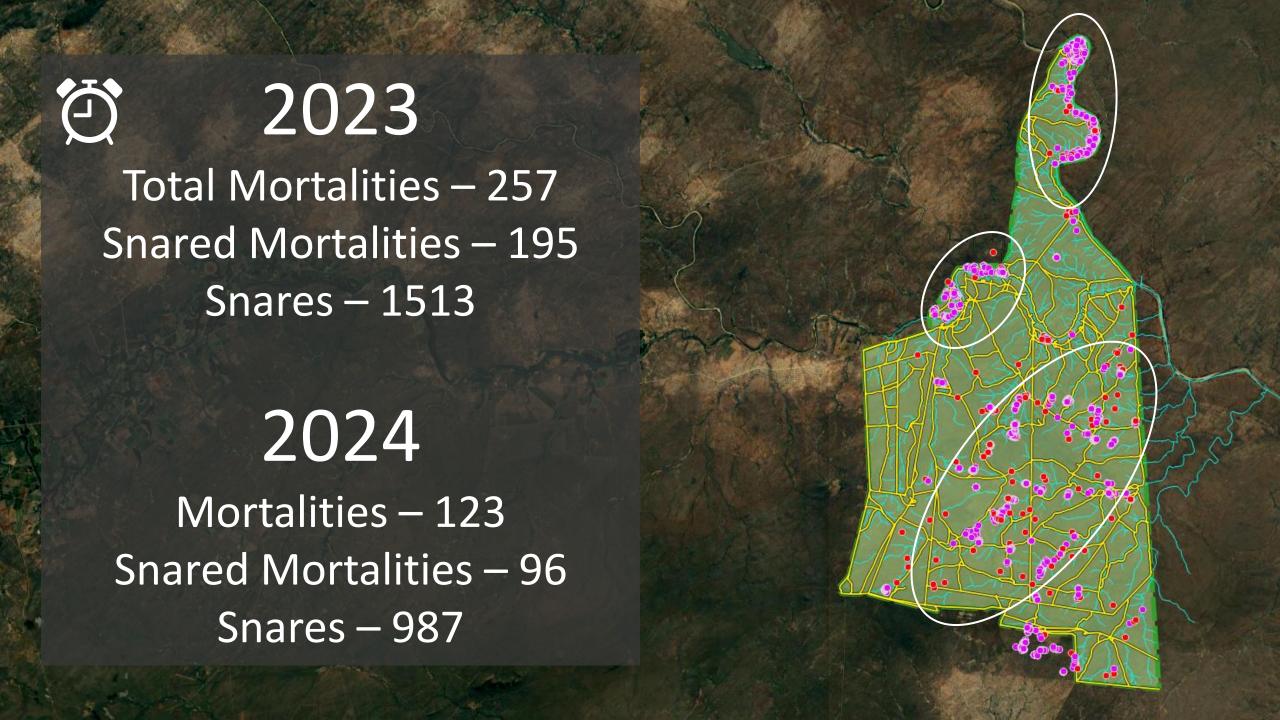


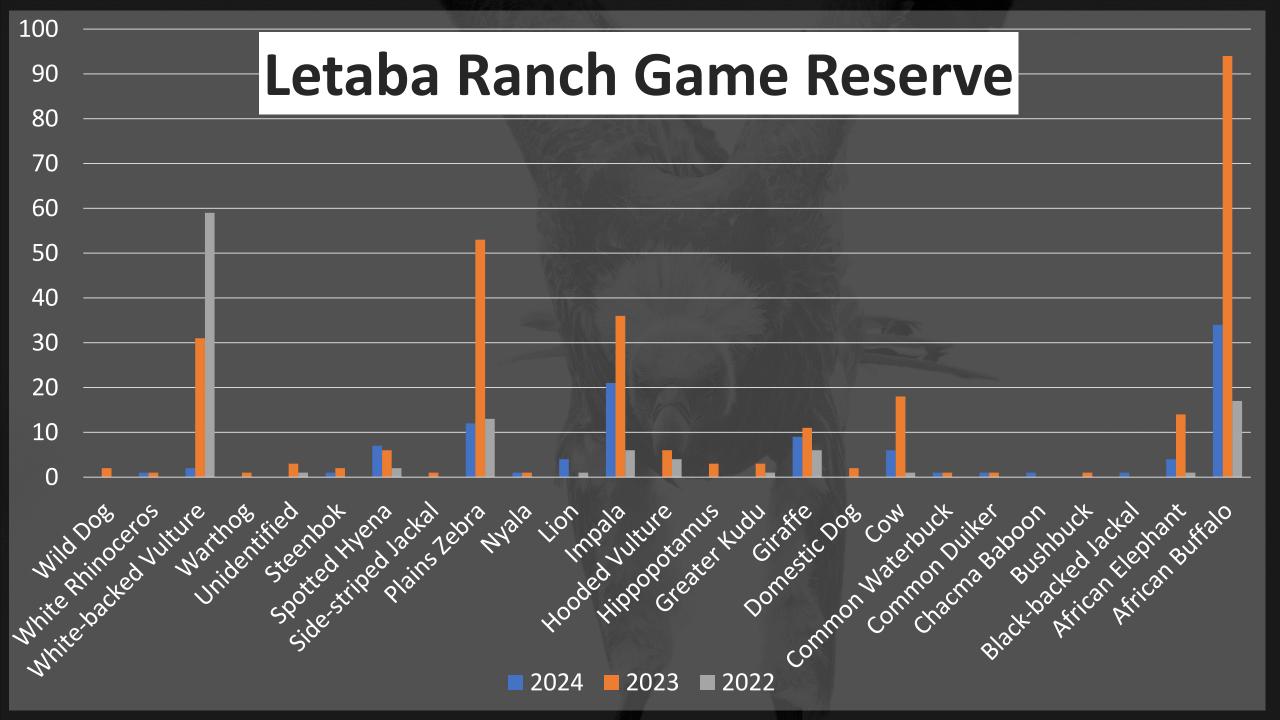
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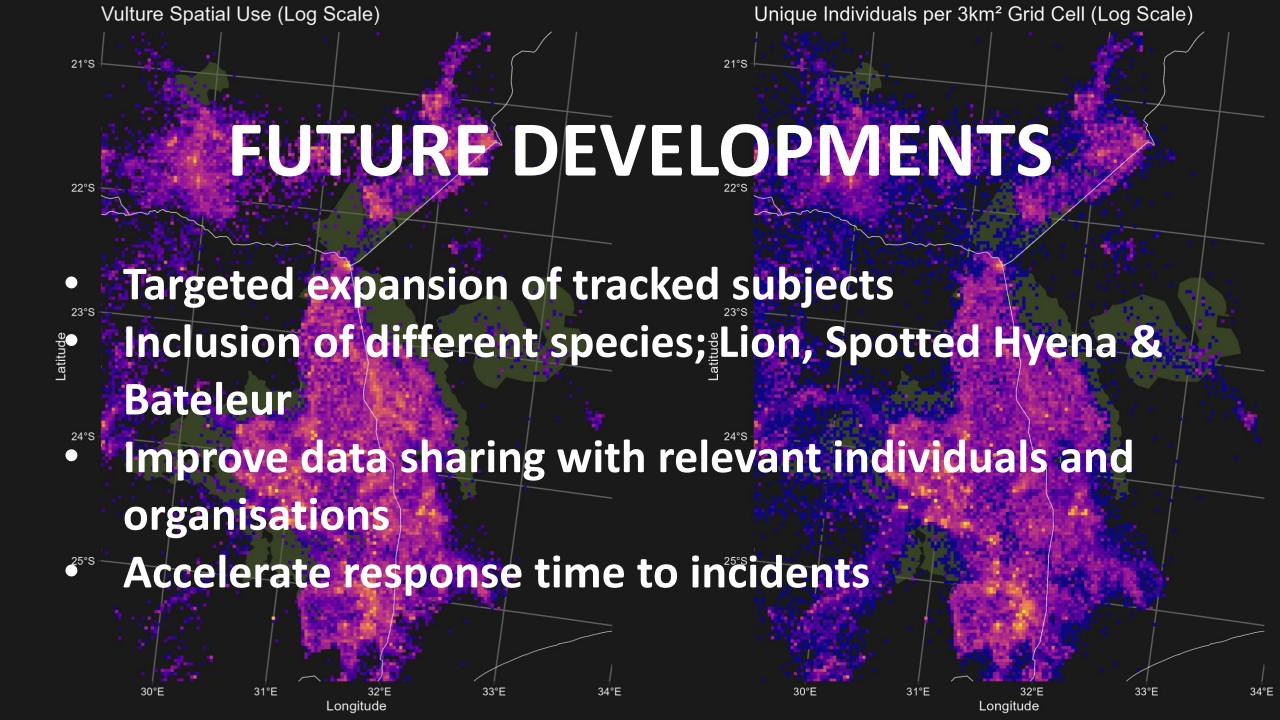






THE FUTURE OF EYE IN THE SKY

Finding new ways to improve the application of vulture tracking data for conservation.





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THANK YOU



ENDANGERED WILDLIFE TRUST

Protecting forever, together.







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