

WILDLIFE ON ROADS PROJECT



ENDANGERED
WILDLIFE TRUST

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South Africa: the road ahead

Shelley Lizzio

**ROAD PAVEMENTS FORUM: TWENTY-EIGHTH MEETING CSIR International Conference Centre,
Gauteng 19 & 20 November 2014**



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WILDLIFE TRUST**

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CONSERVATION IN ACTION



**Endangered
Wildlife Trust**
**Celebrating 40 years
1973 - 2013**



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ENDANGERED WILDLIFE TRUST



**40 years' experience in conservation (founded 1973,
Clive Walker)**



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One of the largest conservation NGO's in *southern* Africa



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9 field-based programmes co-ordinating >90 projects throughout *southern* Africa



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Credible, reliable and accountable

Roads



Aircraft



Marine and coastal shipping

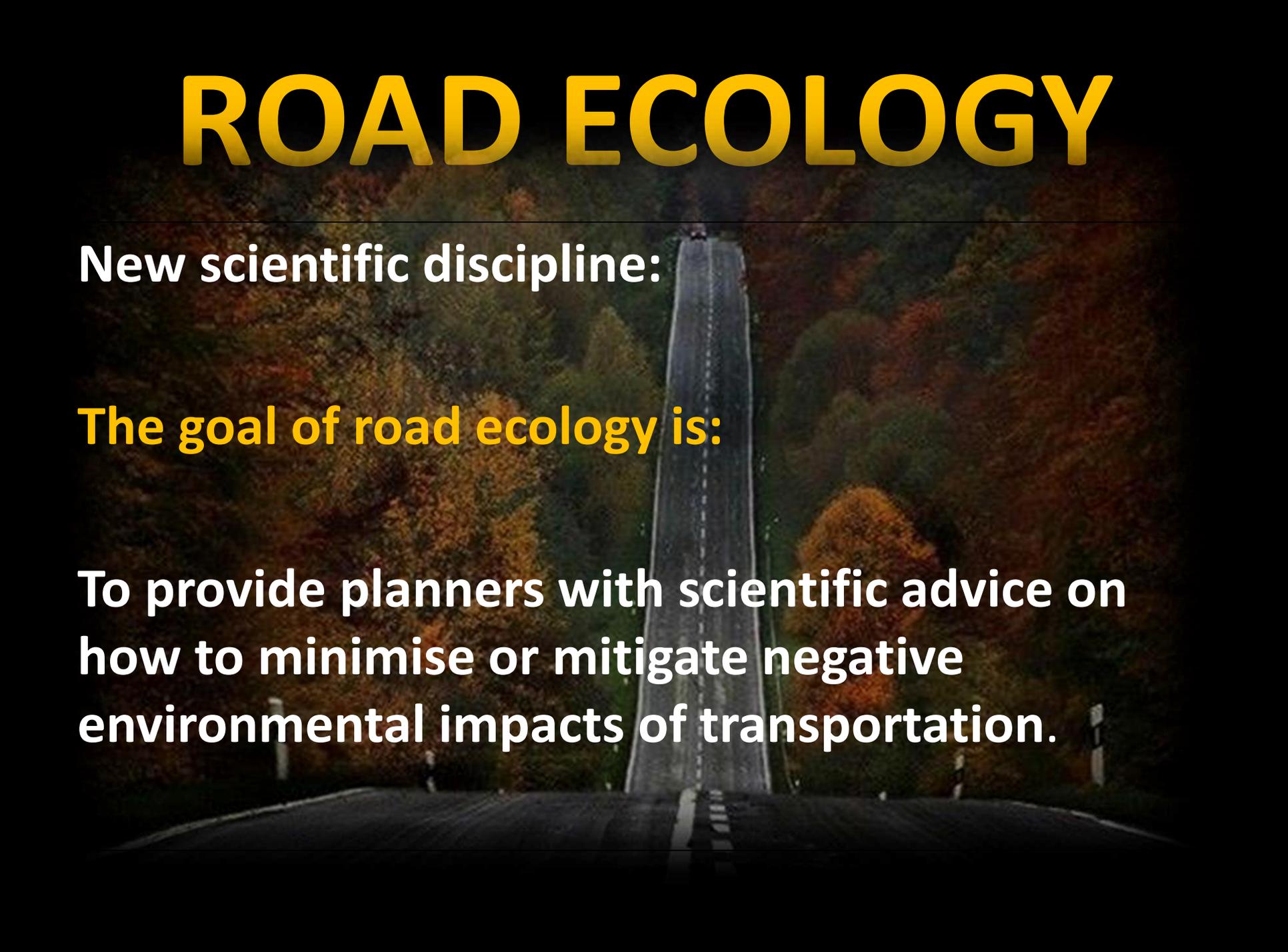


Railways



Impacts of transport infrastructure on South African wildlife

ROAD ECOLOGY

A photograph of a road winding through a forest with autumn foliage. The road is dark and has a white dashed line down the center. The trees on either side are in various shades of green, yellow, and orange. The sky is dark and overcast.

New scientific discipline:

The goal of road ecology is:

To provide planners with scientific advice on how to minimise or mitigate negative environmental impacts of transportation.

THE IMPACTS OF ROADS:

What do we know so far?





A global perspective of road ecology

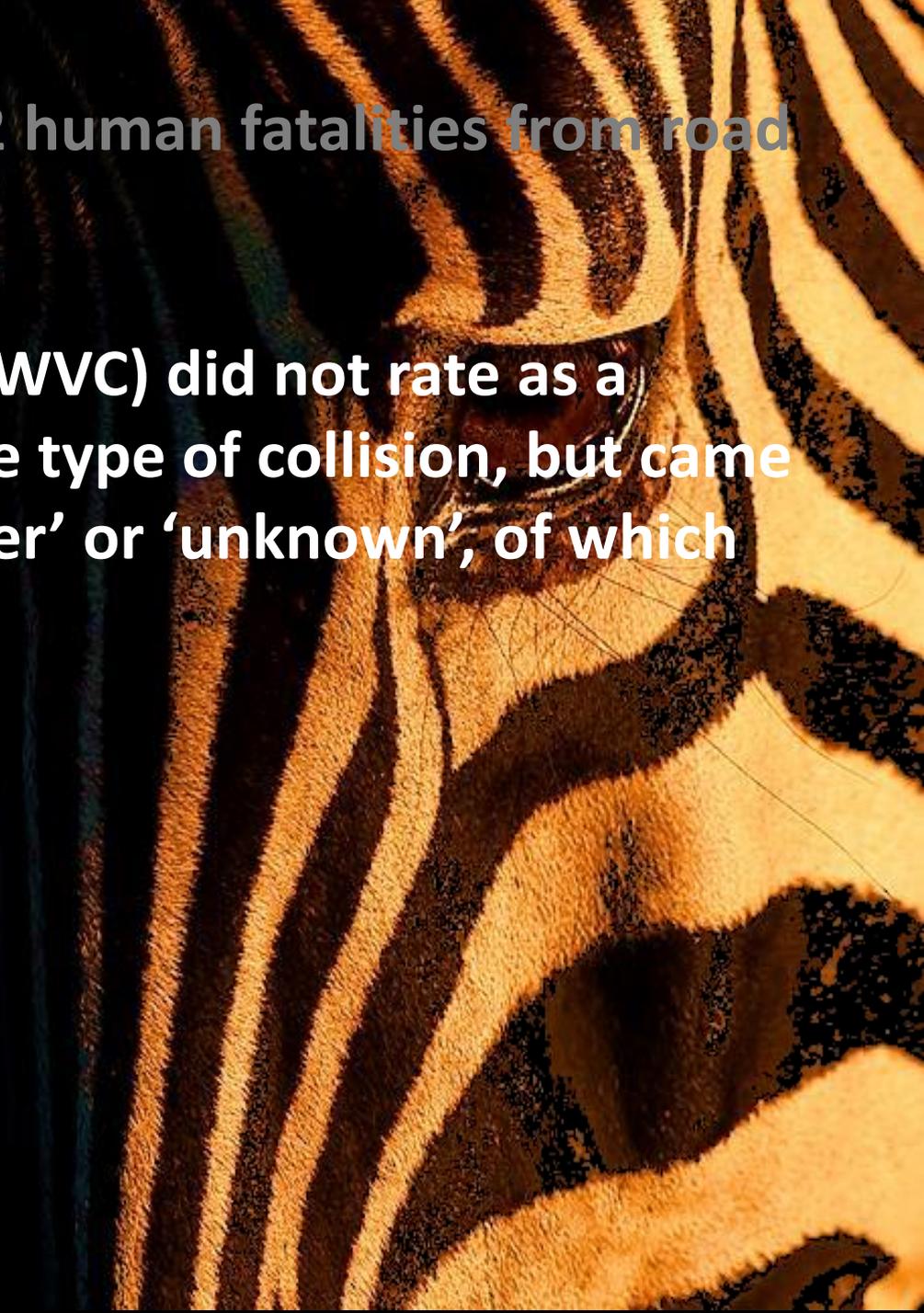




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- In 2011 there were 13,932 human fatalities from road accidents in South Africa
 - Wildlife-vehicle collision (WVC) did not rate as a category for describing the type of collision, but came under the heading of 'other' or 'unknown', of which there were 714
 - **Annually, around US\$150 million is spent on accident insurance claims, with US\$7.7 million attributed to possible WVCs**

Public awareness

Roadkill ONLY ranked as the fourth (out of five) highest threat to wildlife in RSA .



South African Road Ecology



Our work so far

South African Road Ecology



- Collision data (expert surveys and volunteers)

BRAKE FOR WILDLIFE

We need your help!



The Endangered Wildlife Trust, together with Pilanesberg National Park are currently researching the problem of animals killed on roads. If you spot any roadkill during your travels, please record your sighting and send the information to us (location – preferably GPS co-ordinates, species, and date seen). Your information will assist us with reducing the impacts of transport on our wildlife and making our roads safer for all users.

Sightings can be submitted by:

E-mail: roads@ewt.org.za

Cell phone app Android (type this link to your browser)

<http://www.prismsw.com/roadwatch/android/RoadWatchSouthAfrica.apk>

Apple – Download from SA store iTunes

Facebook - [https://www.facebook.com/EndangeredWildlifeTrust?](https://www.facebook.com/EndangeredWildlifeTrust?ref=hl-Facebook)
ref=hl-Facebook

GivenGain - <http://www.givengain.com/cause/2347/projects/14490/>

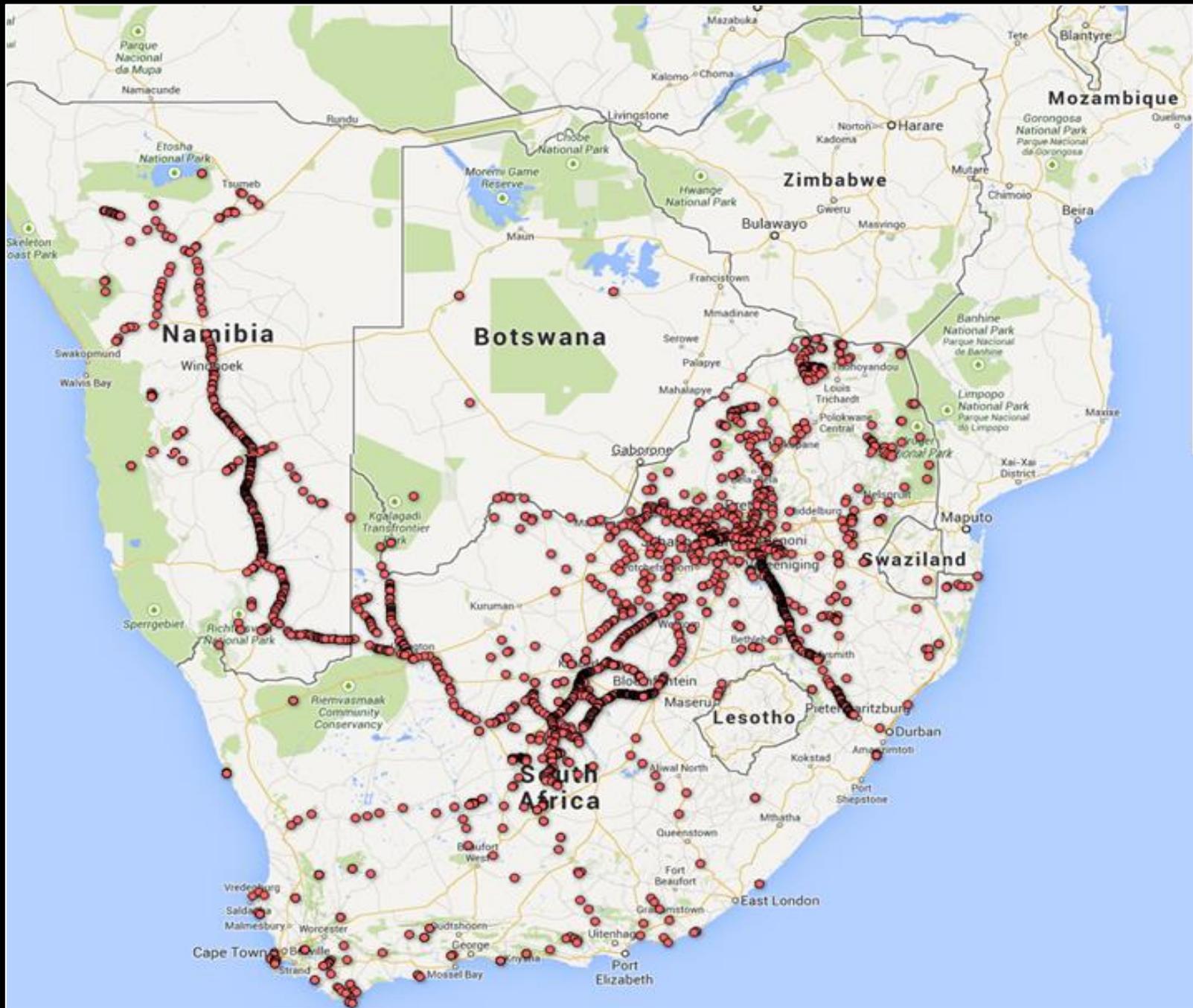
Twitter - @EwtRoads

AfricaLive: Apple app store, Google Play

BRIDGESTONE



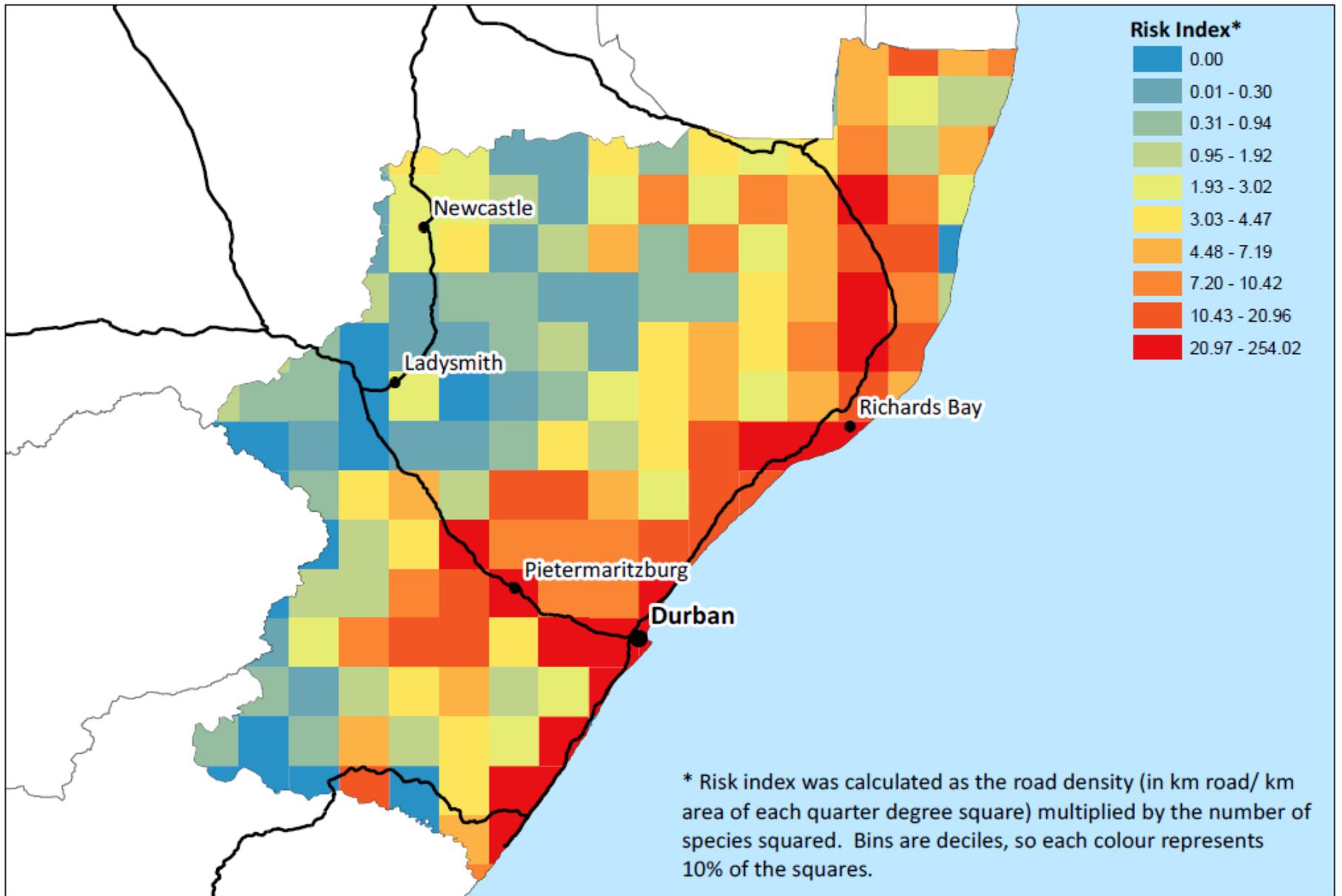
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South African Road Ecology



- Collision data (expert surveys and volunteers)
- Road sensitivity map



Species / Road sensitivity maps

South African Road Ecology



- Collision data (expert surveys and volunteers)
- Road sensitivity map
- Handbook for mitigating the impacts of roads



THE ROAD AHEAD

strategies for roadkill mitigation in South Africa



**ENDANGERED
WILDLIFE TRUST**

WILDLIFE &
TRANSPORT
PROGRAMME

conservation in action

South African Road Ecology



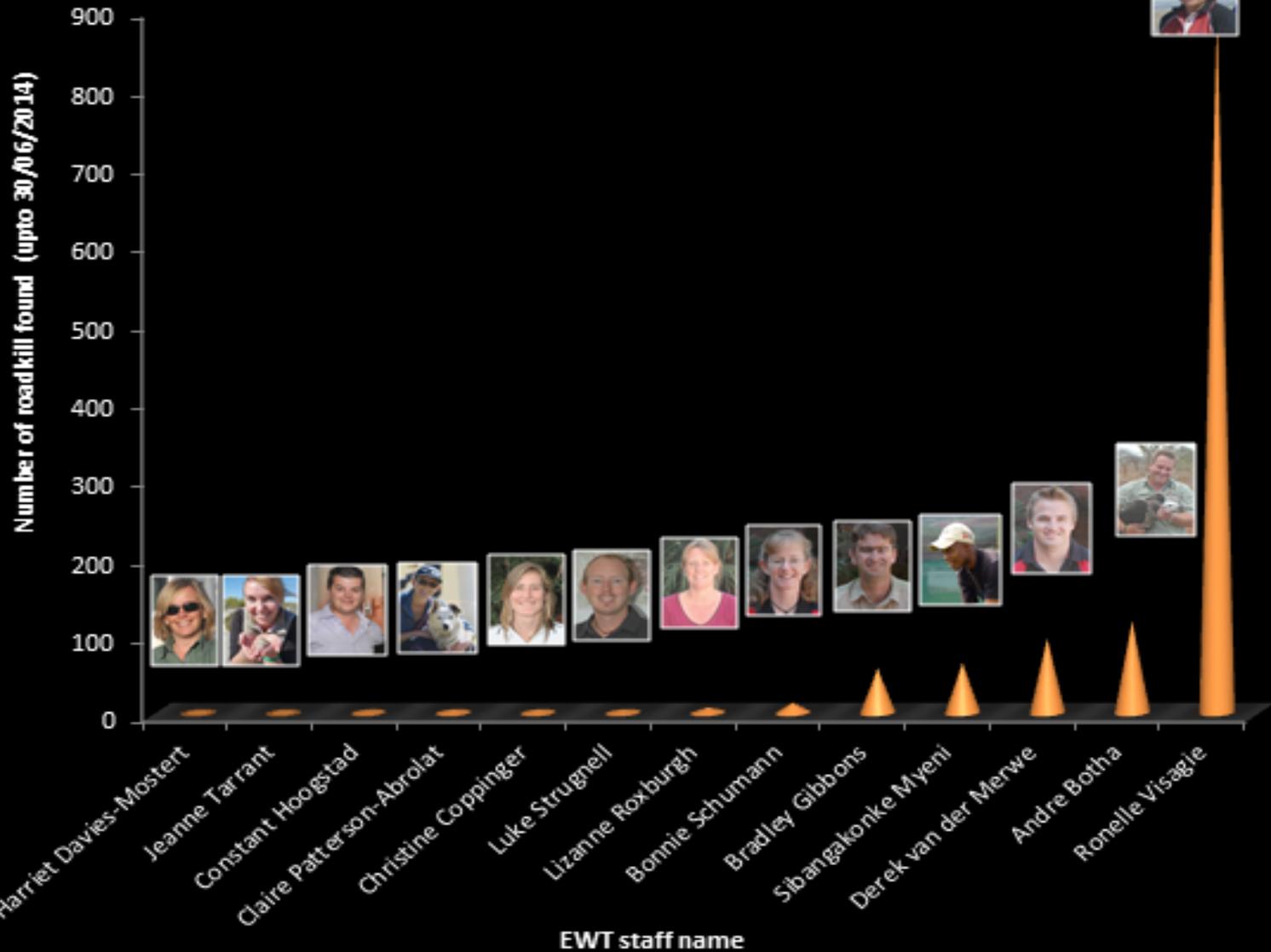
- Collision data (expert surveys and volunteers)
- Road sensitivity map
- Handbook for mitigating the impacts of roads
- Training people to be citizen scientists

Staff training



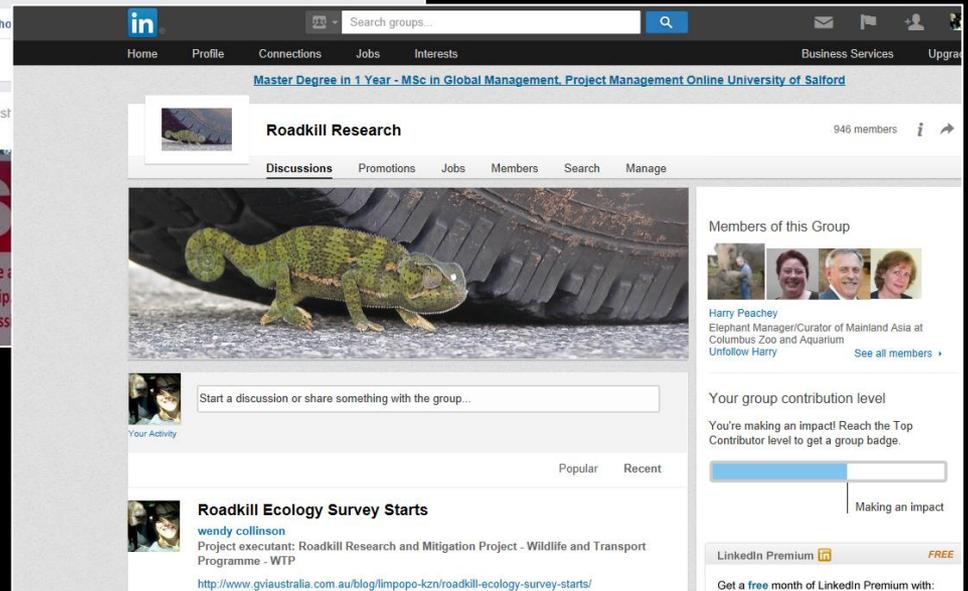
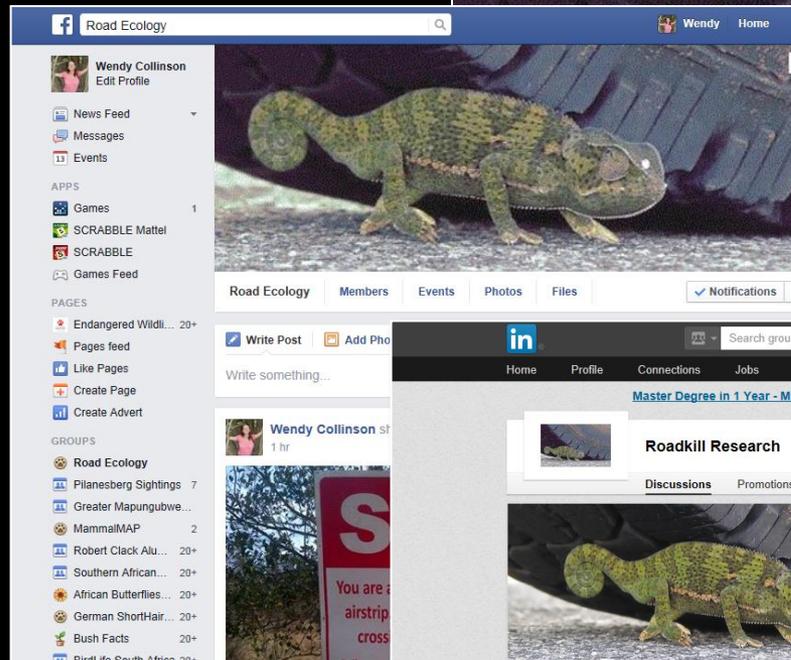
Some of road patrols in action

EWT STAFF: BRAKE FOR WILDLIFE CHALLENGE



The power of Social Media.....

- Twitter
- Facebook
- LinkedIn



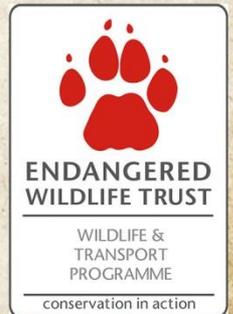
South African Road Ecology



What can we do?

Current EWT Projects

- **Western Leopard Toad Roadkill Mitigation Project – Western Cape**
- **Small mammal, Reptile and Amphibian Roadkill Mitigation Project – northern Limpopo**



Western Leopard Toad



Caution!
Western Leopard Toads



Endangered



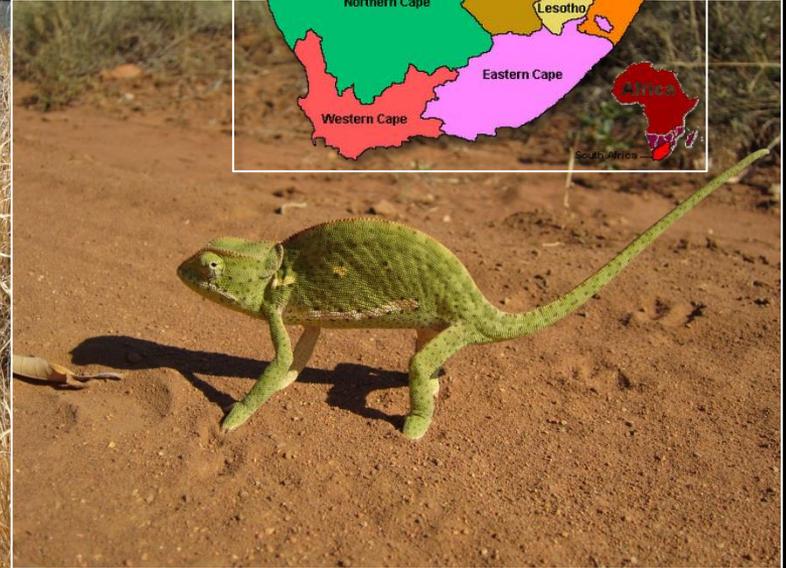
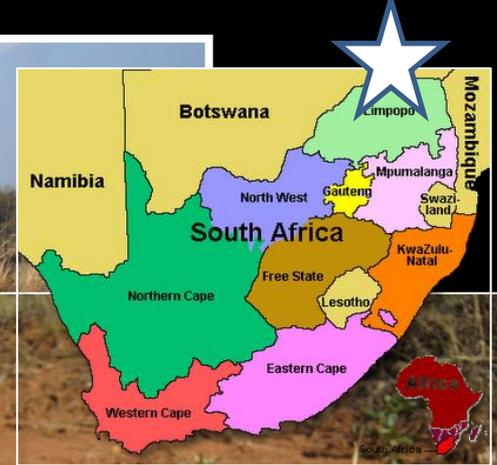


ARKive
www.arkive.org

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RESULT

100% success rate where the barriers were installed



- Monitor small mammal, reptile and amphibian tunnel usage
- Monitor roads and compare to existing roadkill rates

Roadkill in protected areas

... and the citizen scientist





Latest Sightings - Kruger

Liked · 15 February · Edited ·

Sadly early this morning a hippo was hit by a vehicle on the H4-1 near Nkuhlu.

I'm not confirming that this was sp... to use this post to remind you to pl... and carefully while in our game par...

Like · Comment · Share

208 people like this.

185 shares

Laura Brand Poor hippo 😞
Like · Reply · 15 February at 19:

Dawn Semas Katzmann how not see a hippo and hit it?
Like · Reply · 15 February at 28:

3 Replies

Ingrid Holtzhausen Dit is seks Die goed het mos geen respek v voel 'n veer oor die natuur! En a vinnig word jy gevloek en aan gi gedoen kan word nie! Daar is nie persone wat nie die reëls van die my (in goeie Afrikaans) die MOE Like · Reply · 15 February at 27:

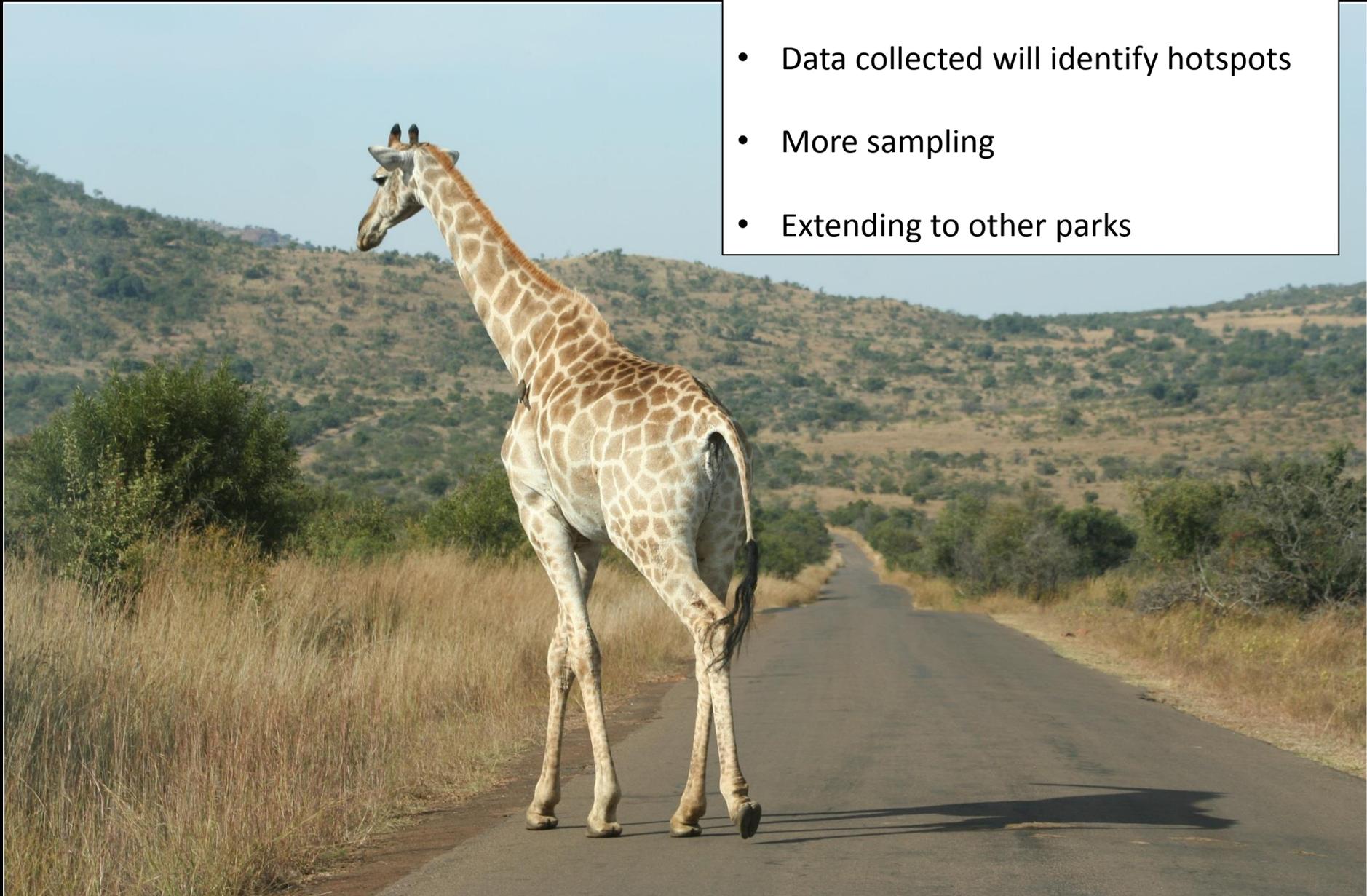
2 Replies

Vicki Leahy When is this going in the kruger has to be sorted as biggest offenders are the staff a have seen it with my own eyes t come on guys show some respek their home not yours Like · Reply · 15 February at 22:

Michele Benson If it was hit by a vehicle the most likely culprits are parks trucks or employees or commercial delivery vehicles- they speed around the park and nothing ever gets done about them. Like · Reply · 15 February at 18:46



- Surveys will assist with understanding
- Data collected will identify hotspots
- More sampling
- Extending to other parks





Making our roads safer for drivers as well our country's wildlife

Thank you

Acknowledgements:

SUPPORTERS OF THE WILDLIFE & TRANSPORT PROGRAMME



PARTNERSHIPS / COLLABORATIONS / MEMBERS



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