

# KNP's frog diversity and a discussion of conservation outlook

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# Introduction

- KNP: 2000 floral and 850 faunal vertebrate species.
- 126 reptile species.
- **34 amphibian species.**
- 505 bird species.
- 147 mammal species.
- 49 fish species.

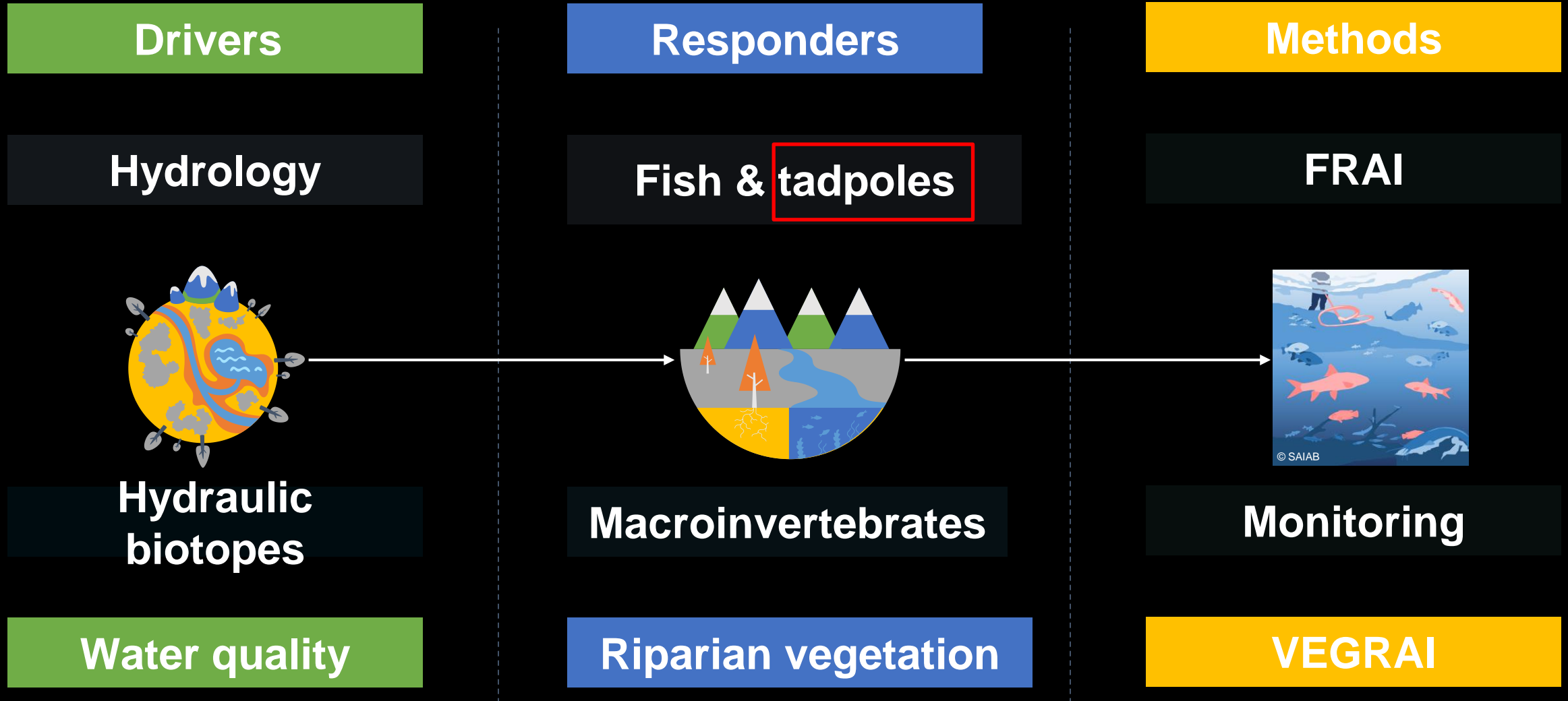


# Aims and Objectives

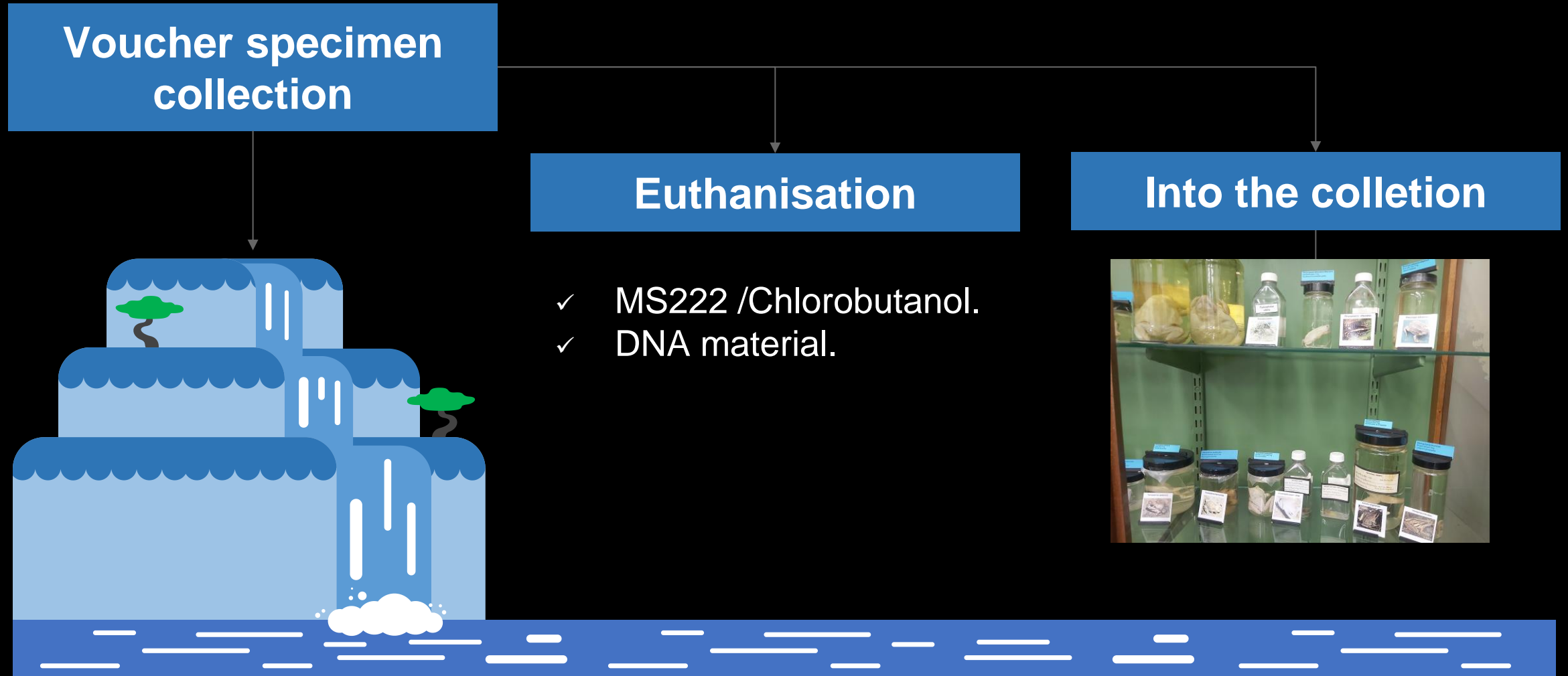
- Inventorise anuran species.
- Determine distribution patterns.
- Assess optimum survey methods.



# The River Health Programme (RHP)



# Amphibian specimens: The Skukuza Biological Reference Collection



# Case study 1: Comparison of methods

- “Dry season”.
- Four sites – annual freshwater monitoring.
- 22- 25 September 2024.
- Comparison of methods – amphibian monitoring.
- AudioMoths vs eDNA.



# Annual KNP Freshwater Monitoring Sites



# Case study 2: Steve-Hamilton Supersites

- Southern granites.
- Renosterkoppies land type, perennial Sabie and Crocodile River catchments.
- Rapid assessment: 8 pans over 4 sampling days.



# Steve-Hamilton Supersites

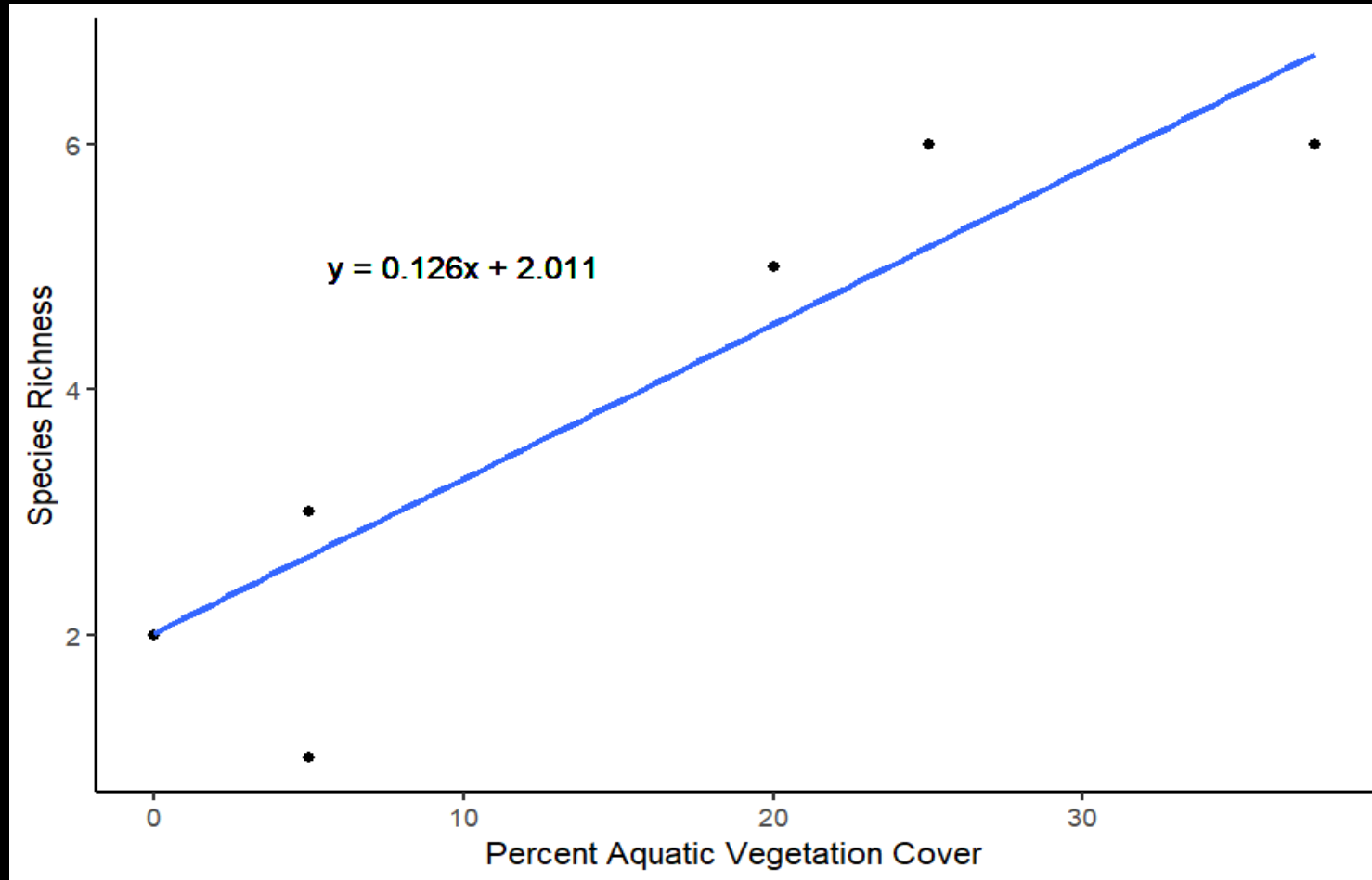


# Preliminary results

**Table 1.** Presence of frog species across the eight study sites in Kruger National Park.

	Site							
Species	B1	B2	M1	M3	M4	T1	T3	T4
<i>Phrynomantis bifasciatus</i>			x					
<i>Chiromantis xerampelina</i>			x					
<i>Ptychadena anchietae</i>		x	x	x		x	x	x
<i>Hemisus marmoratus</i>		x	x		x	x	x	x
<i>Afrixalus aureus</i>					x	x	x	x
<i>Tomopterna marmorata</i>	x	x					x	x
<i>Pyxicephalus edulis</i>	x		x					
<i>Hyperolius pusillus</i>								x
<i>Hildebrandtia ornata</i>			x		x		x	

# Preliminary results



**Figure 1.** Frog species richness is positively associated with the percent aquatic vegetation cover in pans in Kruger National Park ( $r^2 = 0.8096$ ,  $n = 8$ ,  $p <$

# Acknowledgements

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Thank you.

