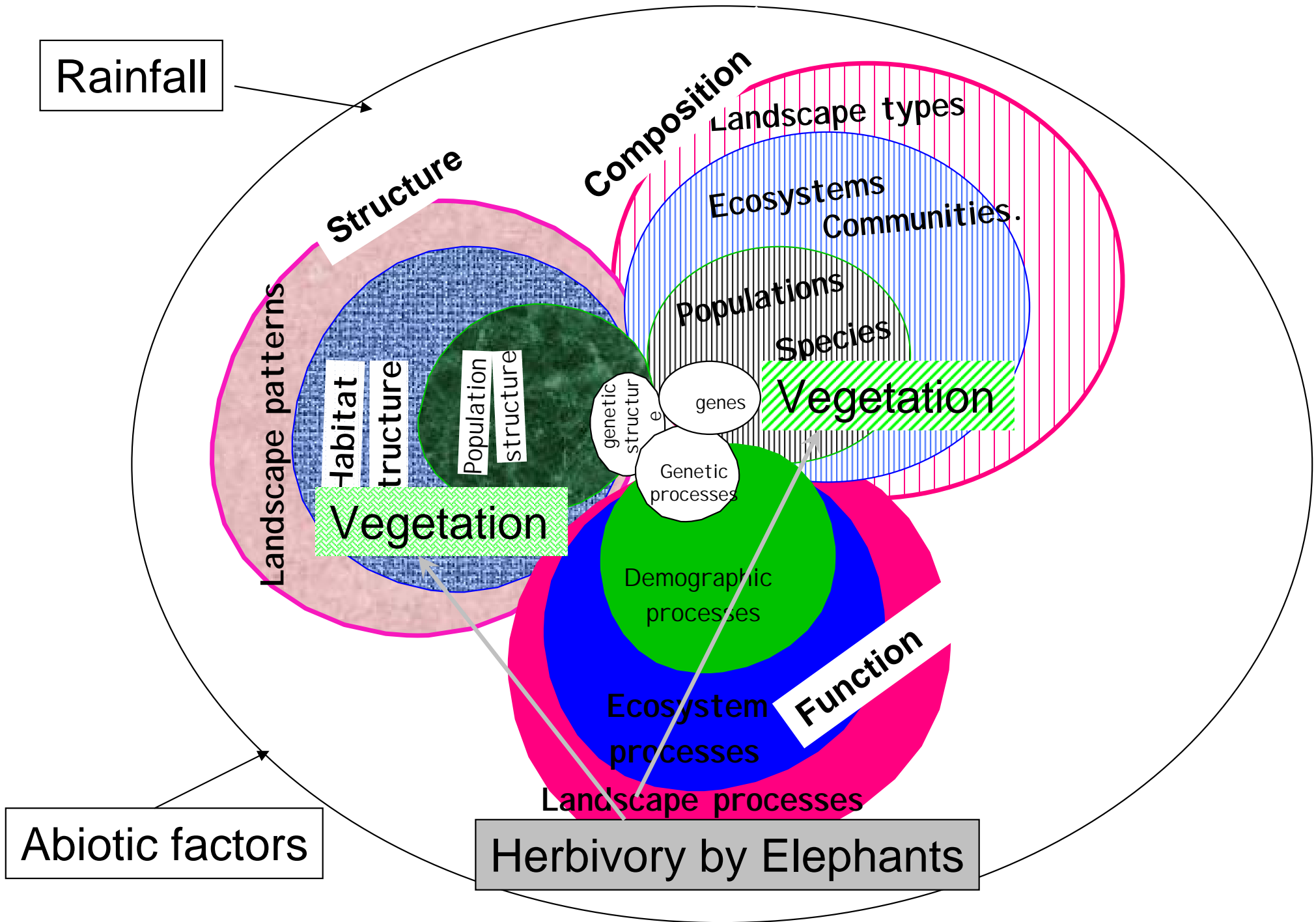


Suggested framework for understanding
Elephant effects on biodiversity
as a tool to inform management decisions

Rina Grant
Dave Balfour & Harry Biggs

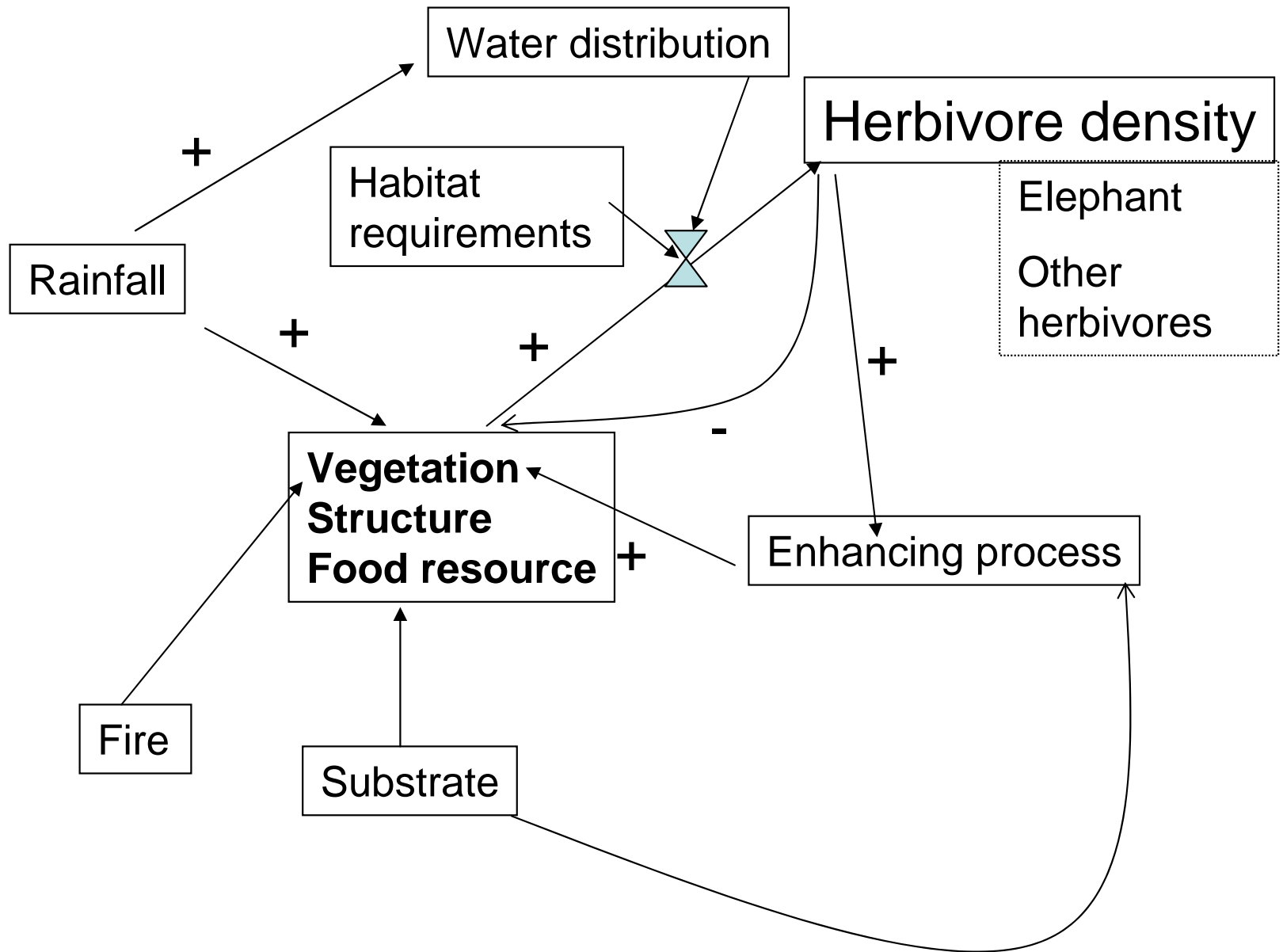




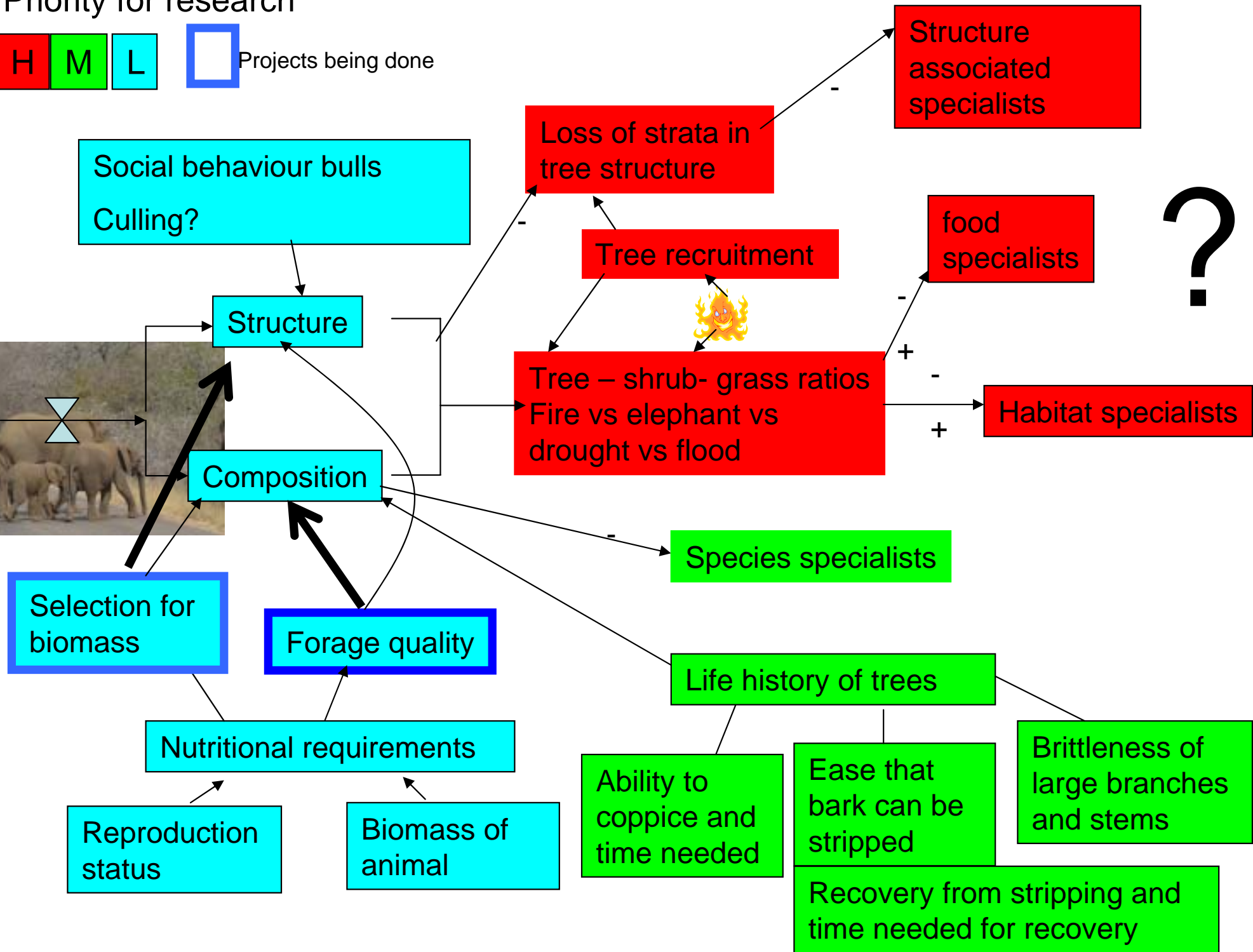
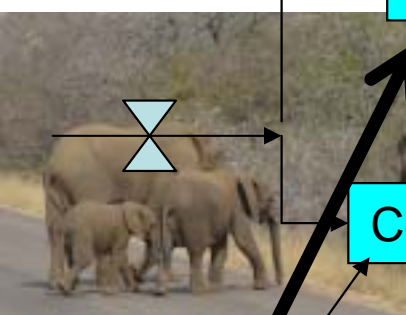
External interest groups



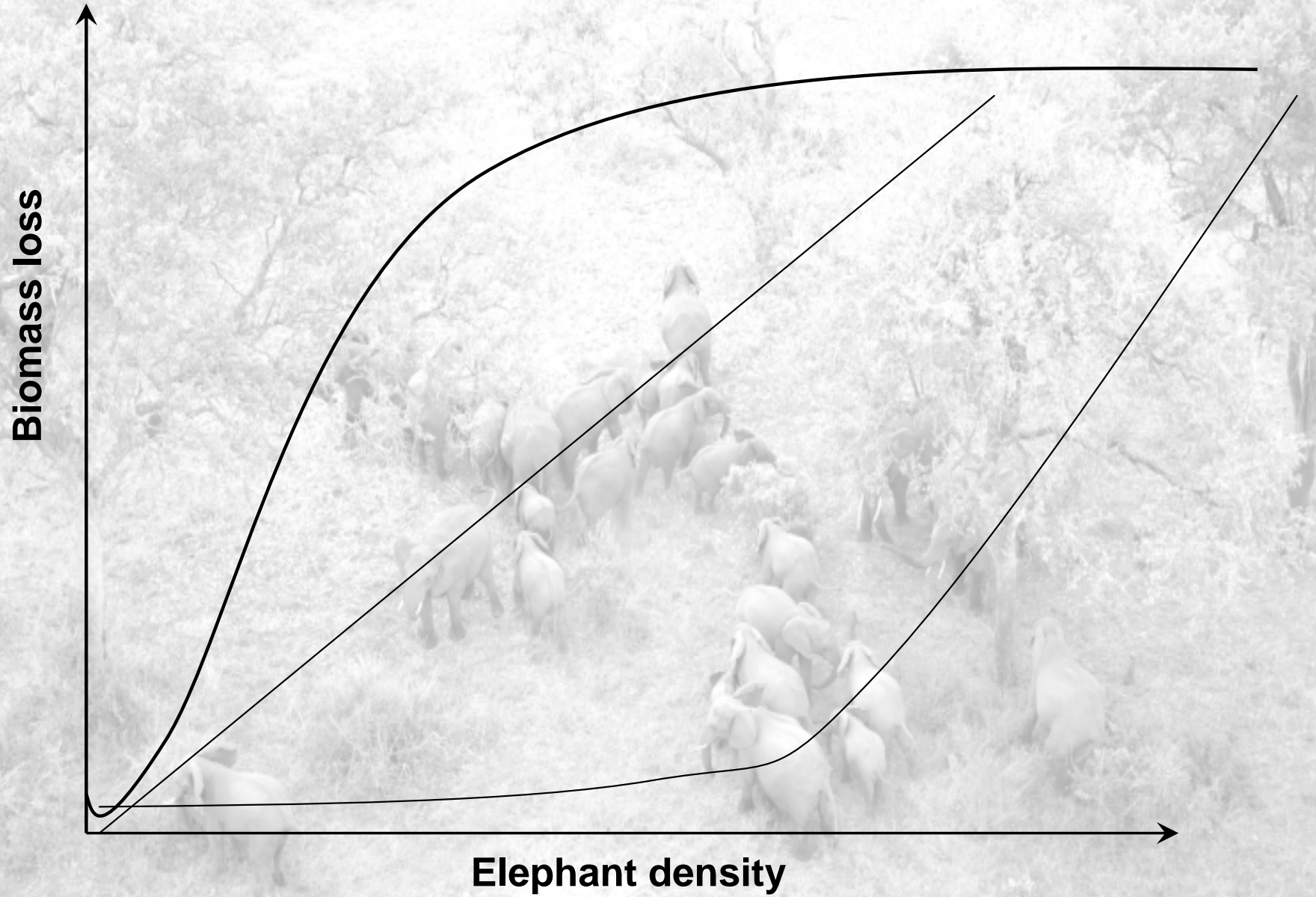




Priority for research



Interactions with fire, drought, ambient soil nutrient status?

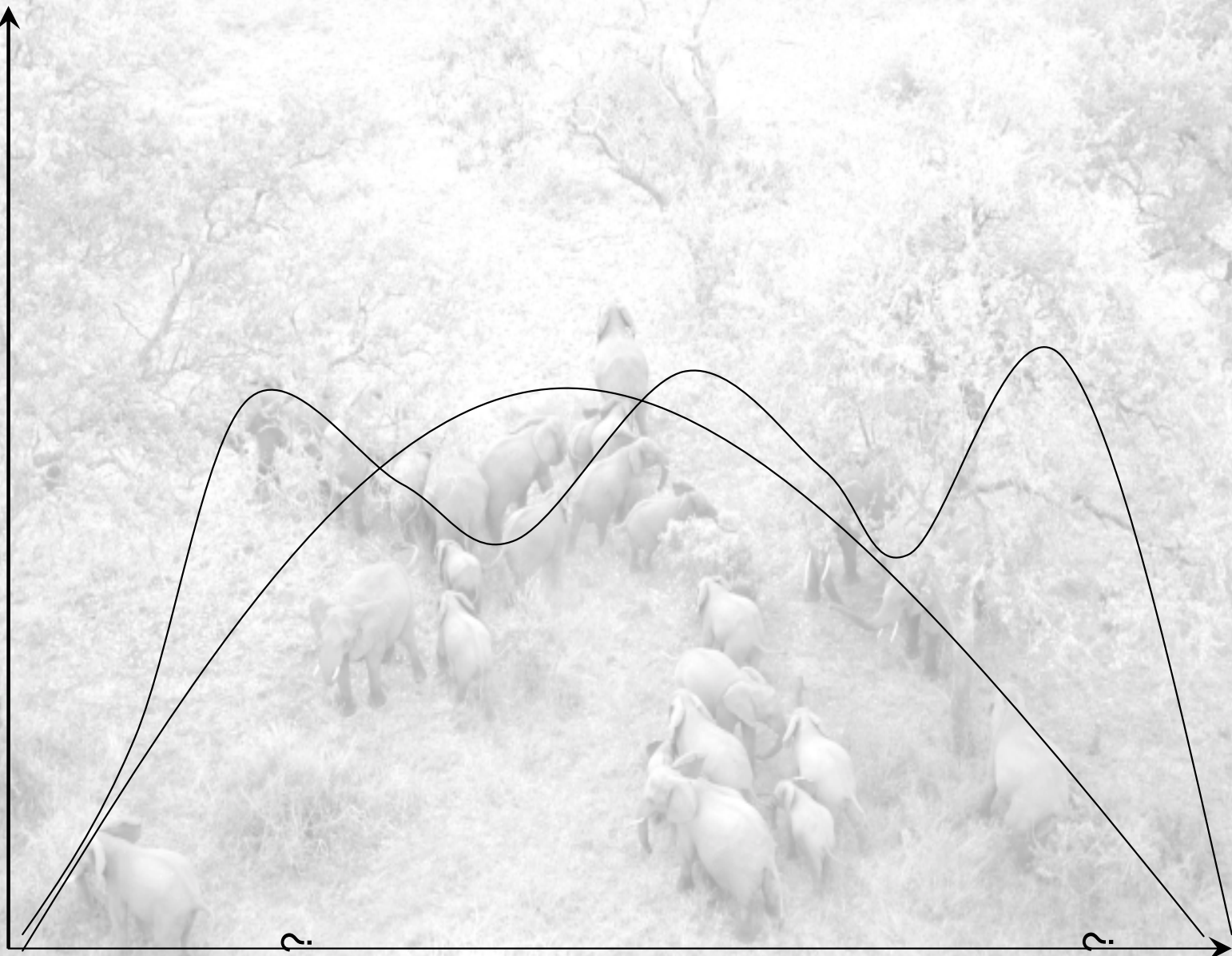


Biodiversity

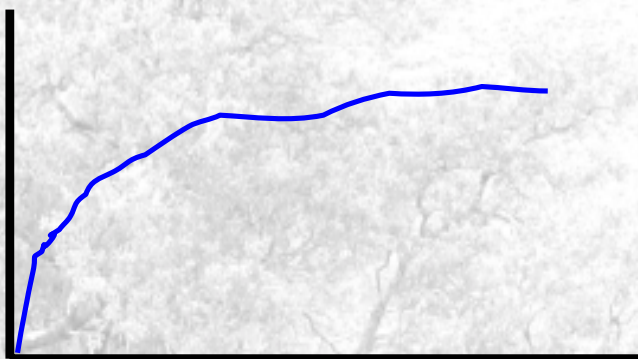
12000 ?

Elephant density

12000 ?

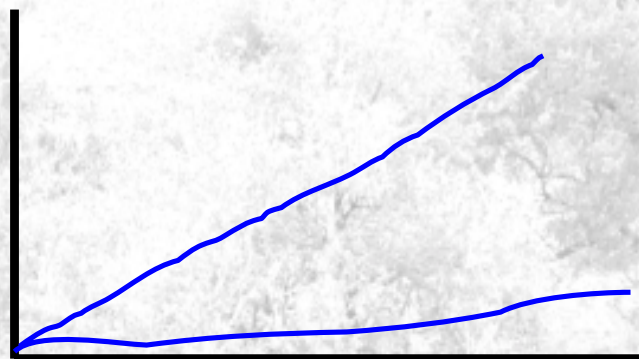


Rate of bio. div loss



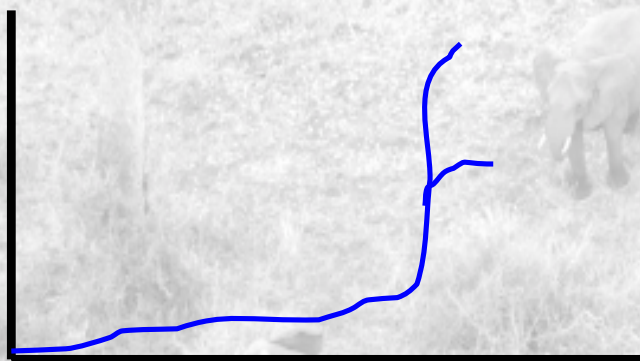
Elephant density

Rate of bio. div loss



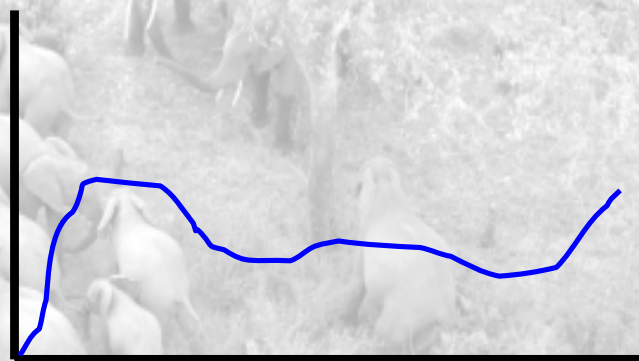
Elephant density

Rate of bio. div loss



Elephant density

Rate of bio. div loss



Elephant density

Important research questions

- What is the nature of the density dependent curve for elephant populations?
- What is the impact /response curve of different tree species in relation to elephant density?
- What are the most preferred landscapes?
- Which species /structures /communities are most preferred?
- What is the biodiversity consequence of a loss of these preferred species?



Important research questions

- What is the relationship between elephant density and patchiness?
- How do other browsers respond to increasing elephant densities
- Which are the tree species or structure associated specialist species?
- What are surrogacy relationships?



Research & Management in future

- We have to not only learn from carefully designed research but also from management.
- Thus careful designed interventions are key to the successful management of biodiversity.

Thank You

