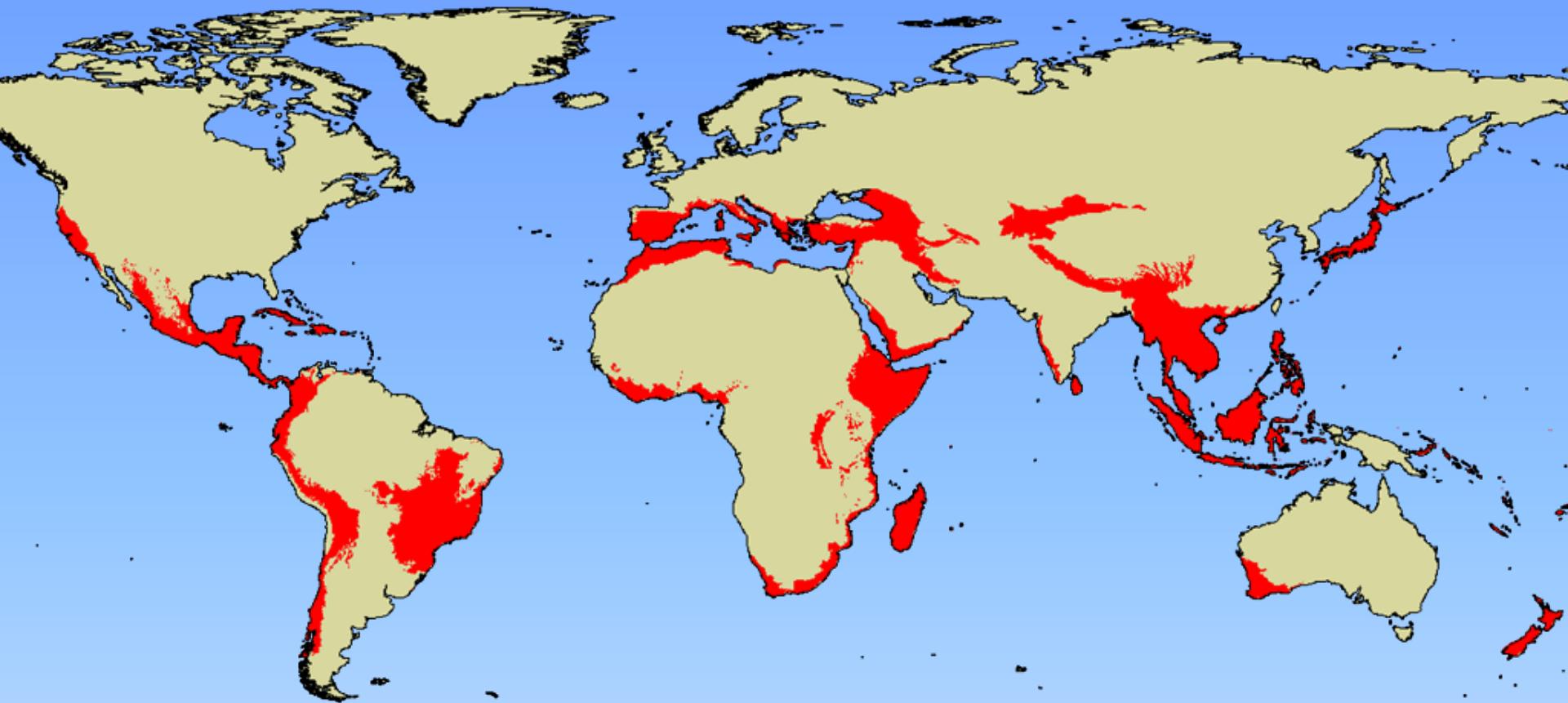


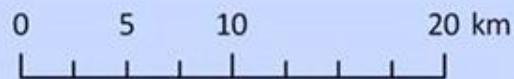
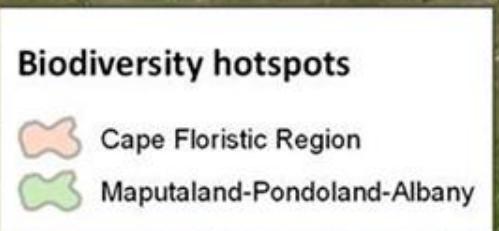
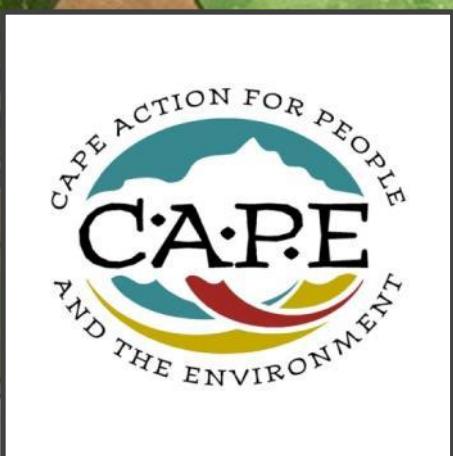
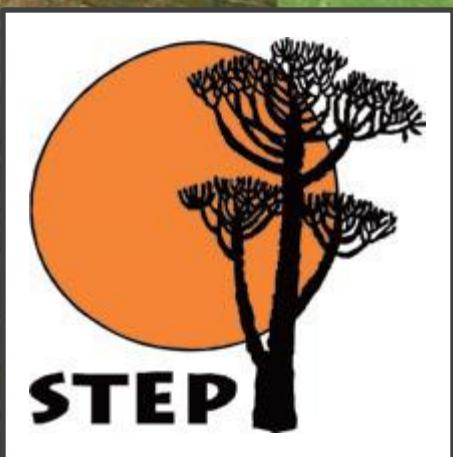
Threatened species in conservation planning

The case of the Baakens
Valley, Port Elizabeth

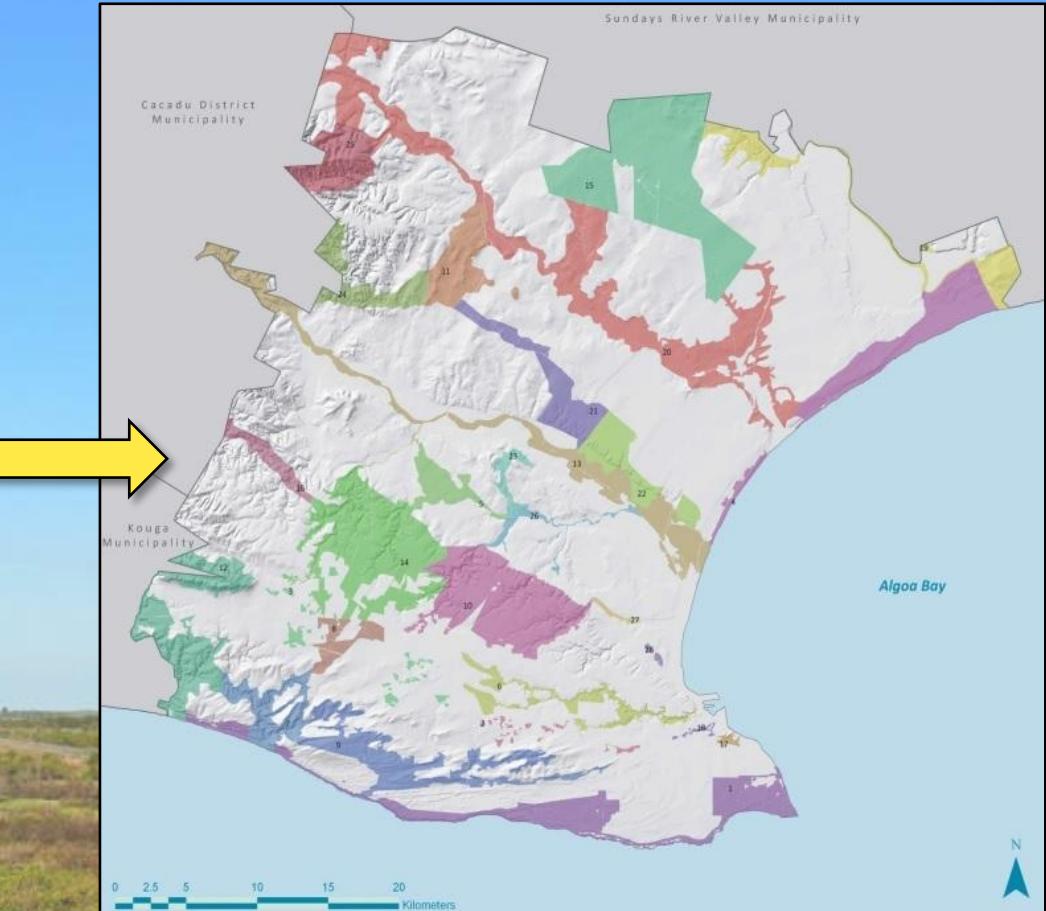
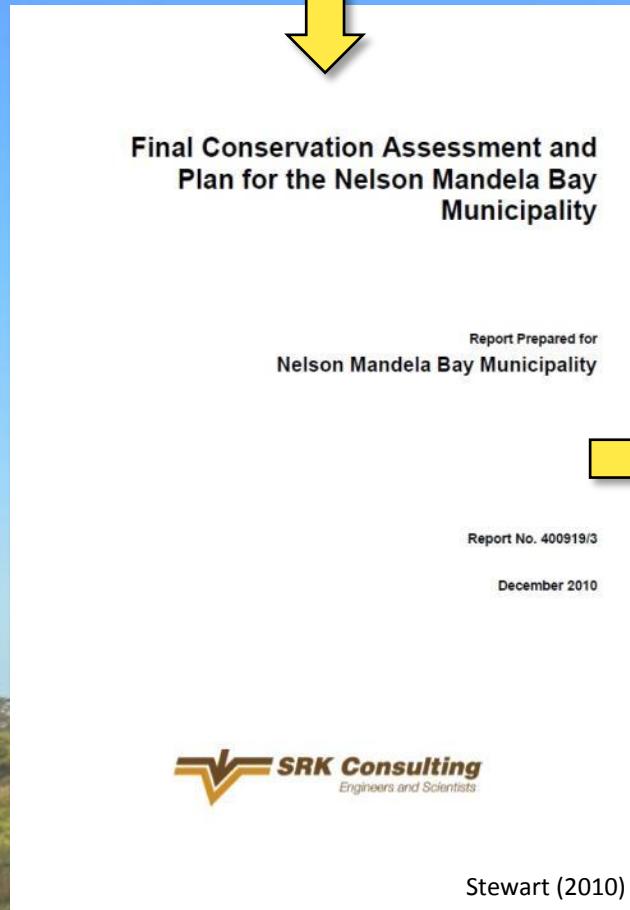




Based on **plant species endemism** (>1 500 spp.) and degree of
threats to biodiversity (>70% habitat lost)



“By the year 2014, a representative proportion of all biodiversity within Nelson Mandela Bay is effectively conserved, in a manner that is embraced by local communities, endorsed by government and recognised internationally”





?

Enough detail?

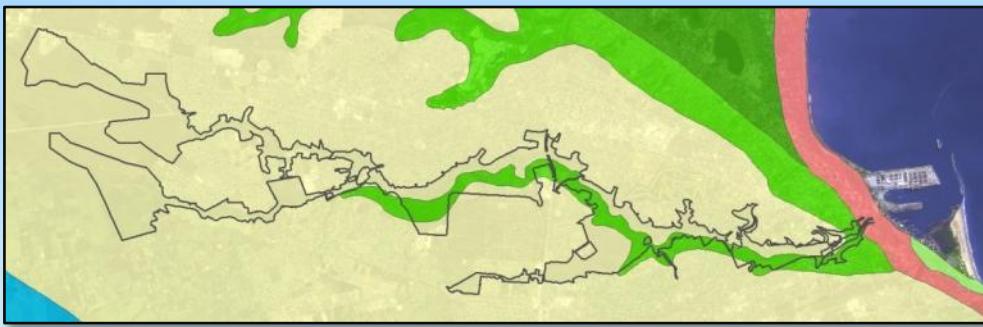
Cowling *et al.* (1999)

CAPE:
2 vegetation units



Vlok & Euston-Brown (2002)

STEP:
3 vegetation units



Stewart (2010)

NMB:
4 vegetation units





Conservation planning

1. Biodiversity pattern:

- Vegetation types
- Taxa of conservation concern

2. Biodiversity processes:

- Ecosystem processes
- Evolutionary processes

3. Threats to biodiversity

4. Conservation targets

5. Reserve system design



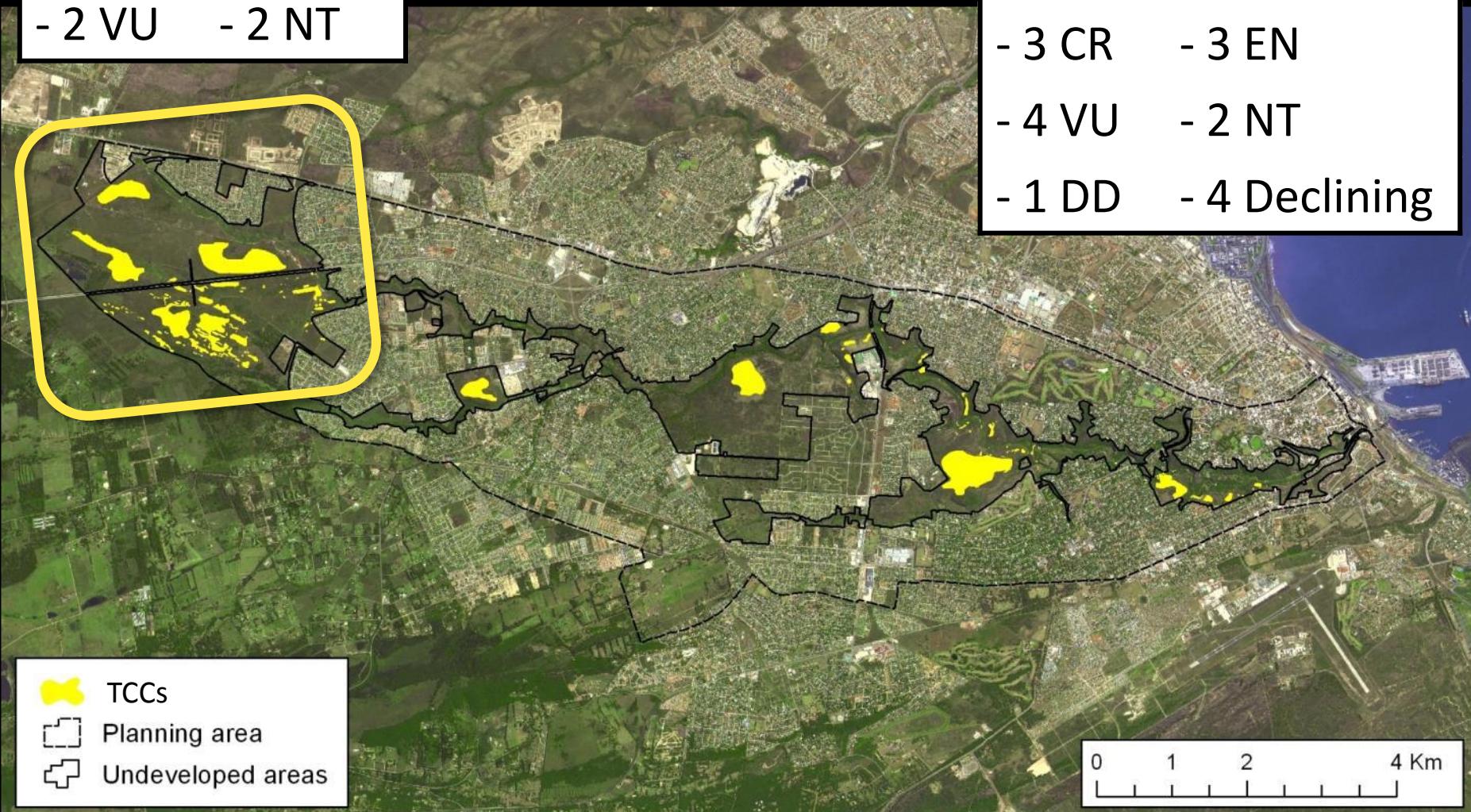
Taxa of Conservation Concern

Total of 12 TCCs:

- 3 CR - 2 EN
- 2 VU - 2 NT

Total of 18 TCCs:

- 3 CR - 3 EN
- 4 VU - 2 NT
- 1 DD - 4 Declining





Agathosma gonaquensis
Gonaqua buchu

RUTACEAE
Critically Endangered



Corpuscularia lehmannii
Vygie

MESEMBRYANTHEMACEAE
Critically Endangered



Cyclopia pubescens
Fluffy honeybush

FABACEAE
Critically Endangered



Brunsvigia litoralis
Coastal candelabra flower

AMARYLLIDACEAE
Endangered



Cyrtanthus spiralis
Spiral-leaved fire lily

AMARYLLIDACEAE
Endangered



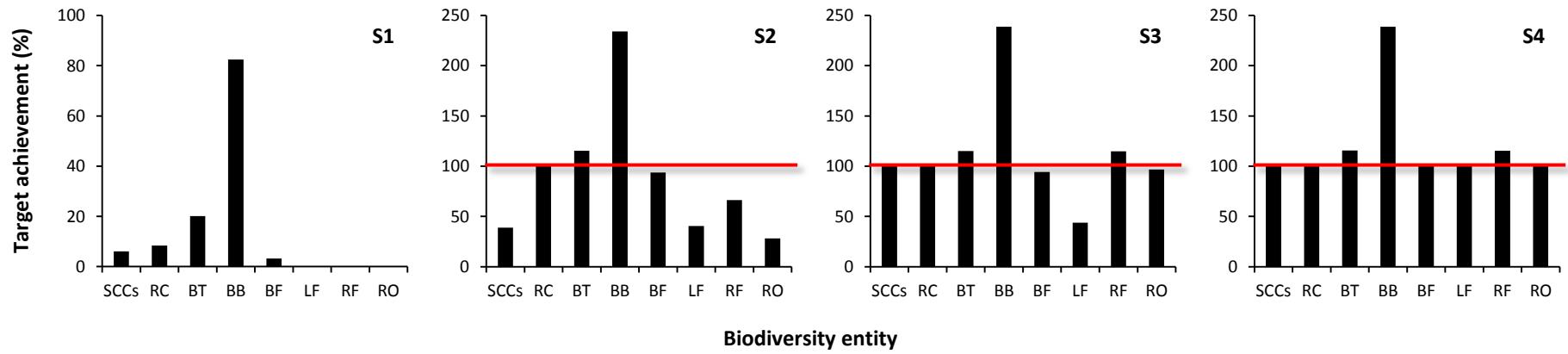
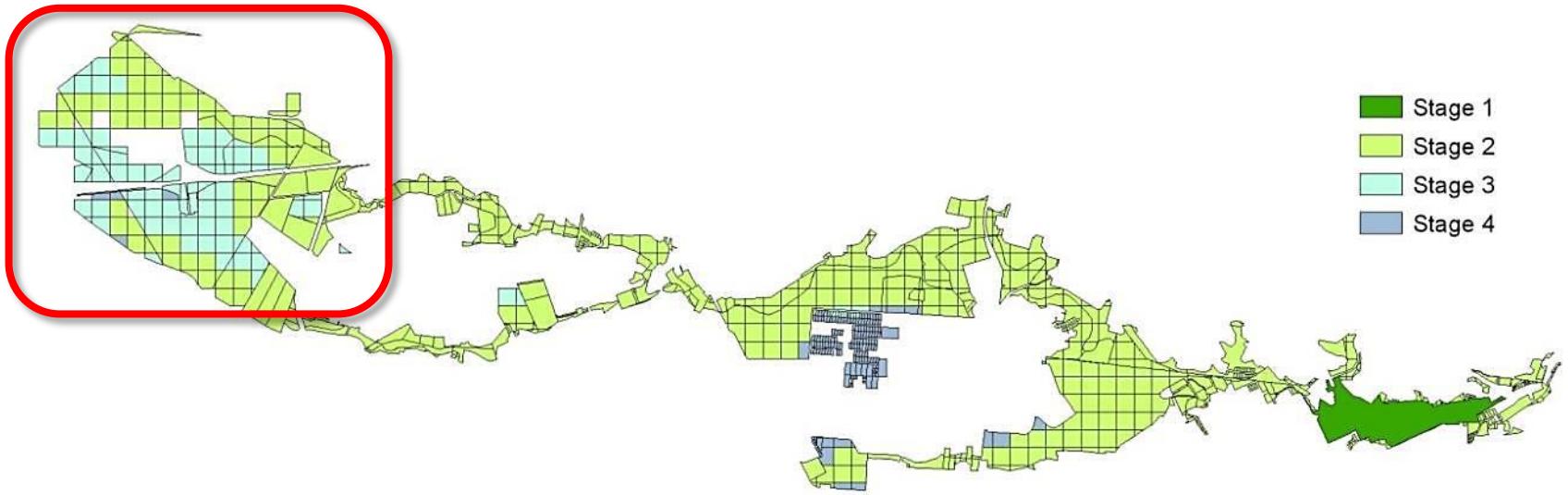
Disa lugens var. *lugens*
Mourning disa

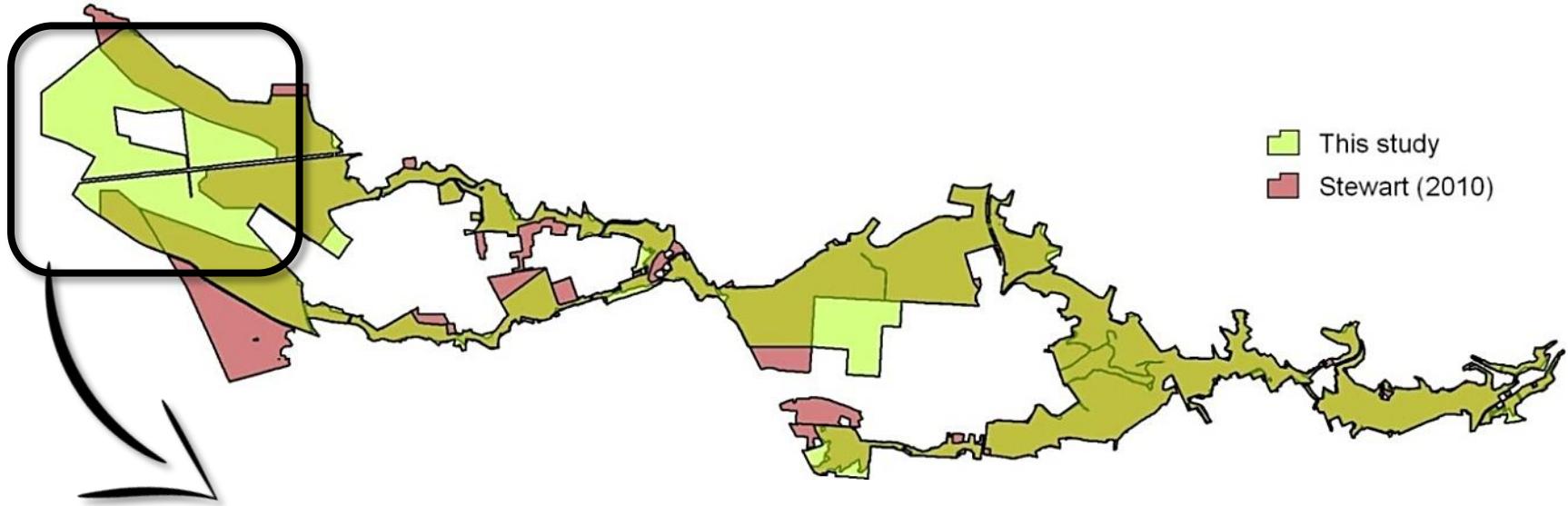
ORCHIDACEAE
Endangered (Vulnerable)



Senecio scaposus subsp. *addoensis*
Addo ragwort

ASTERACEAE
Endangered





**Current gaps for biodiversity pattern —
threatened plant species and vegetation types**







Conclusions

- **Fine scale data can improve conservation planning**
 - Taxa of conservation concern
 - Vegetation types
- **Incorporate data at strategic planning phase**
 - EIA phase might be too late
 - Resource intensive, but ...
- **Use CREW**
 - It's free(ish)!
 - Citizen science platforms (e.g. iSpot)

Thank you!

