Fighting on arrival and fighting for survival

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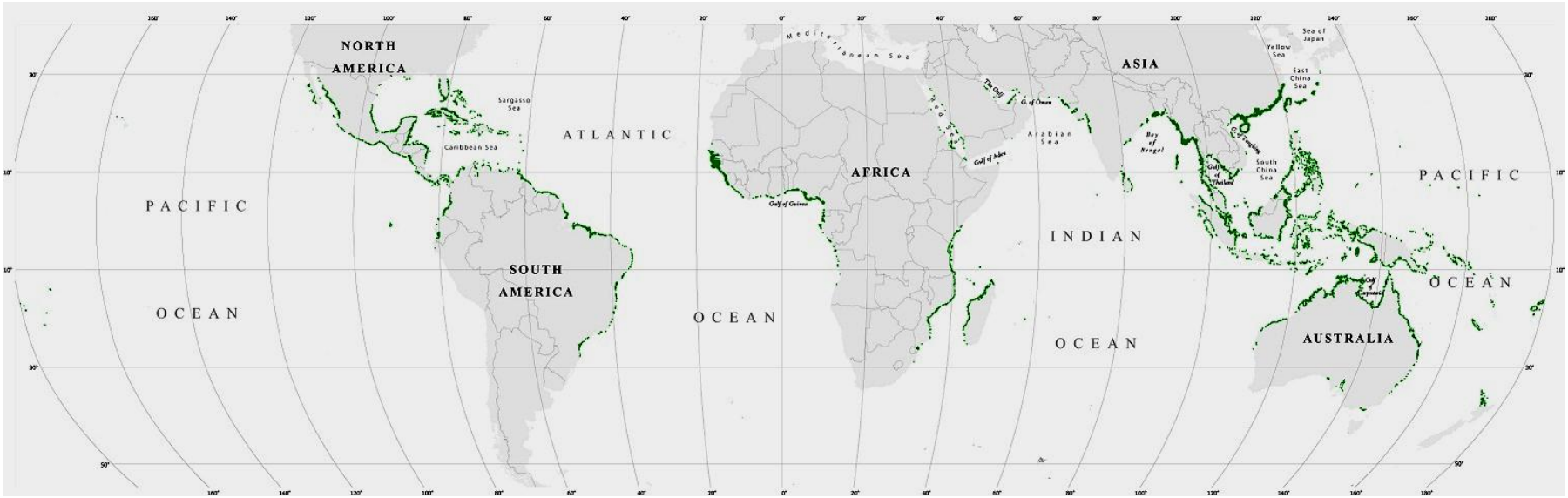
Facts and figures

Global distribution of mangroves- Giri *et al*., 2010



- 67 plant species, 123 countries
- 0.1% of continental surface
- 11% of input of terrestrial carbon

One world

Tamil Nadu

Florida

The road to....

Sri Lanka

Florida

The questions

Ranking of the global impacts

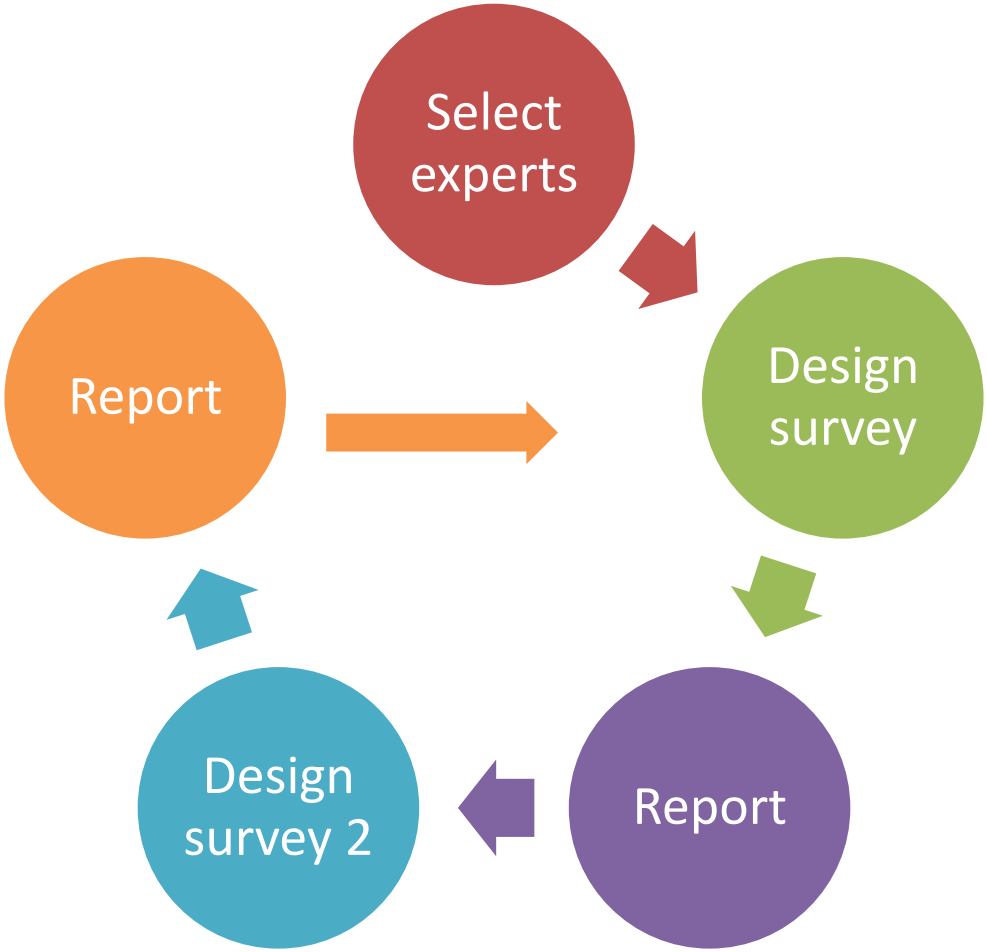
- Scale
- Intensity

Scientific approach

- Ask the experts
  - Delphi technique

- Modelling using KIWI

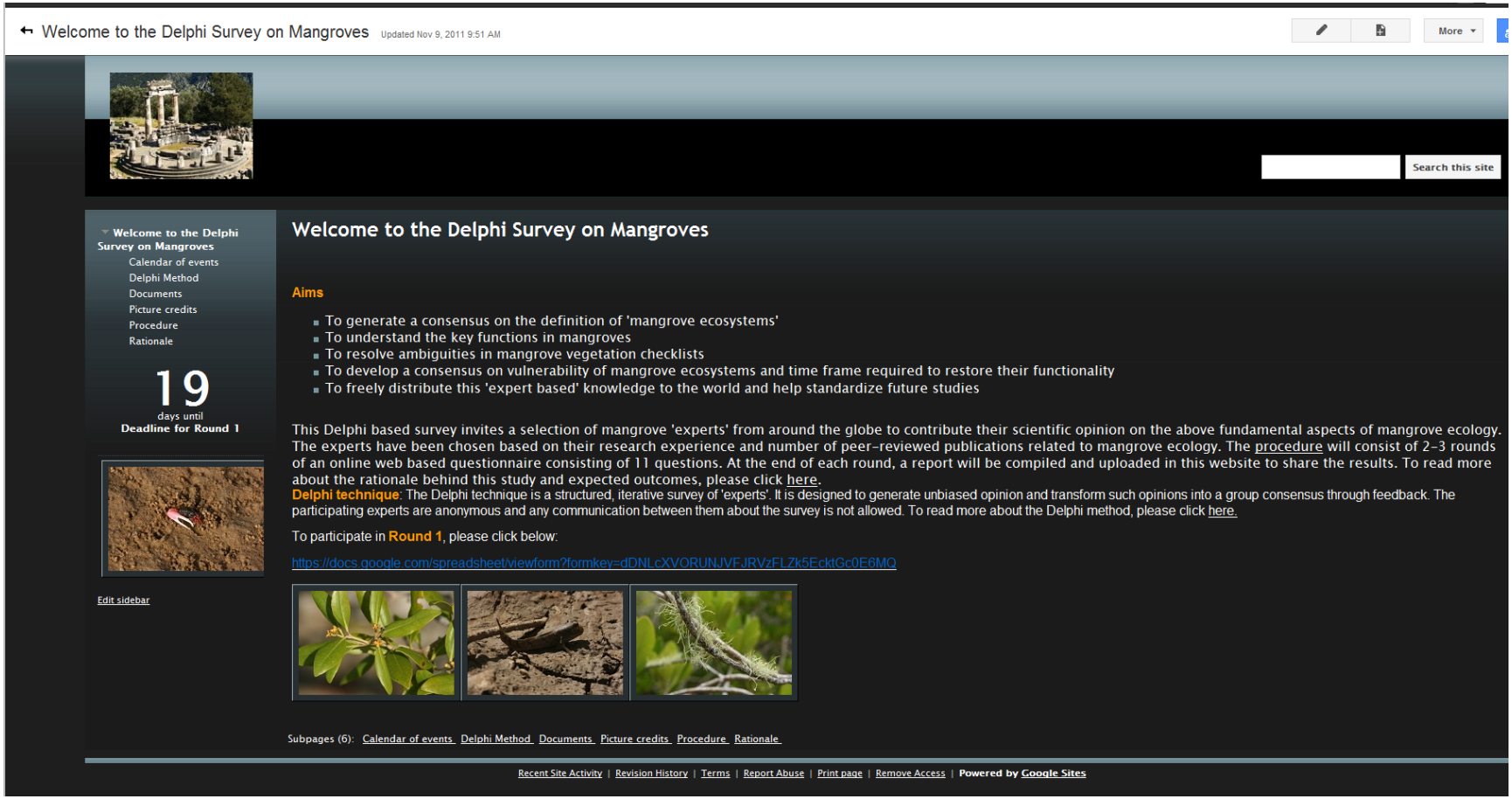
Delphi on mangroves



Step wise process

Choose 1 country

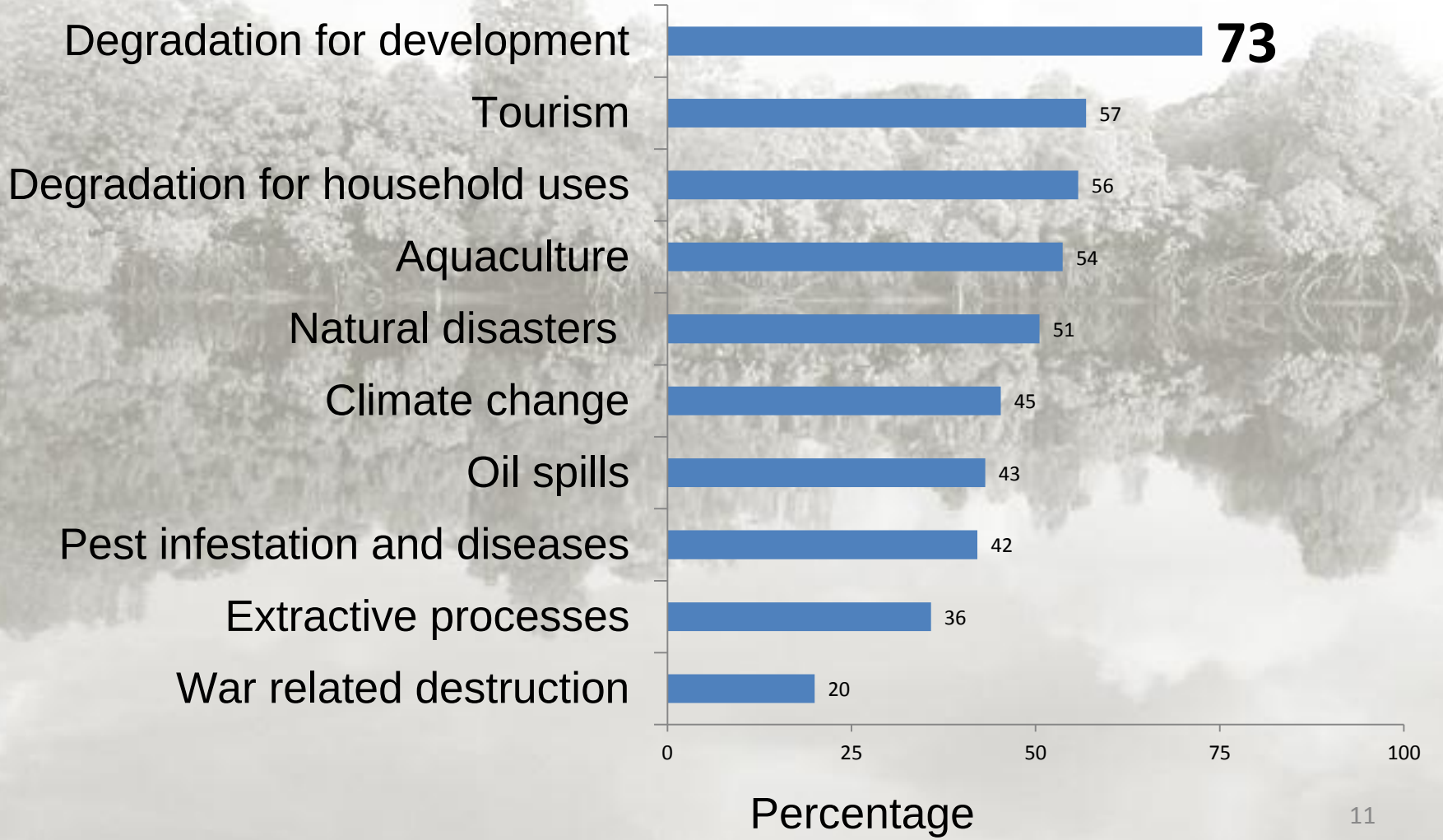
Free web based tools



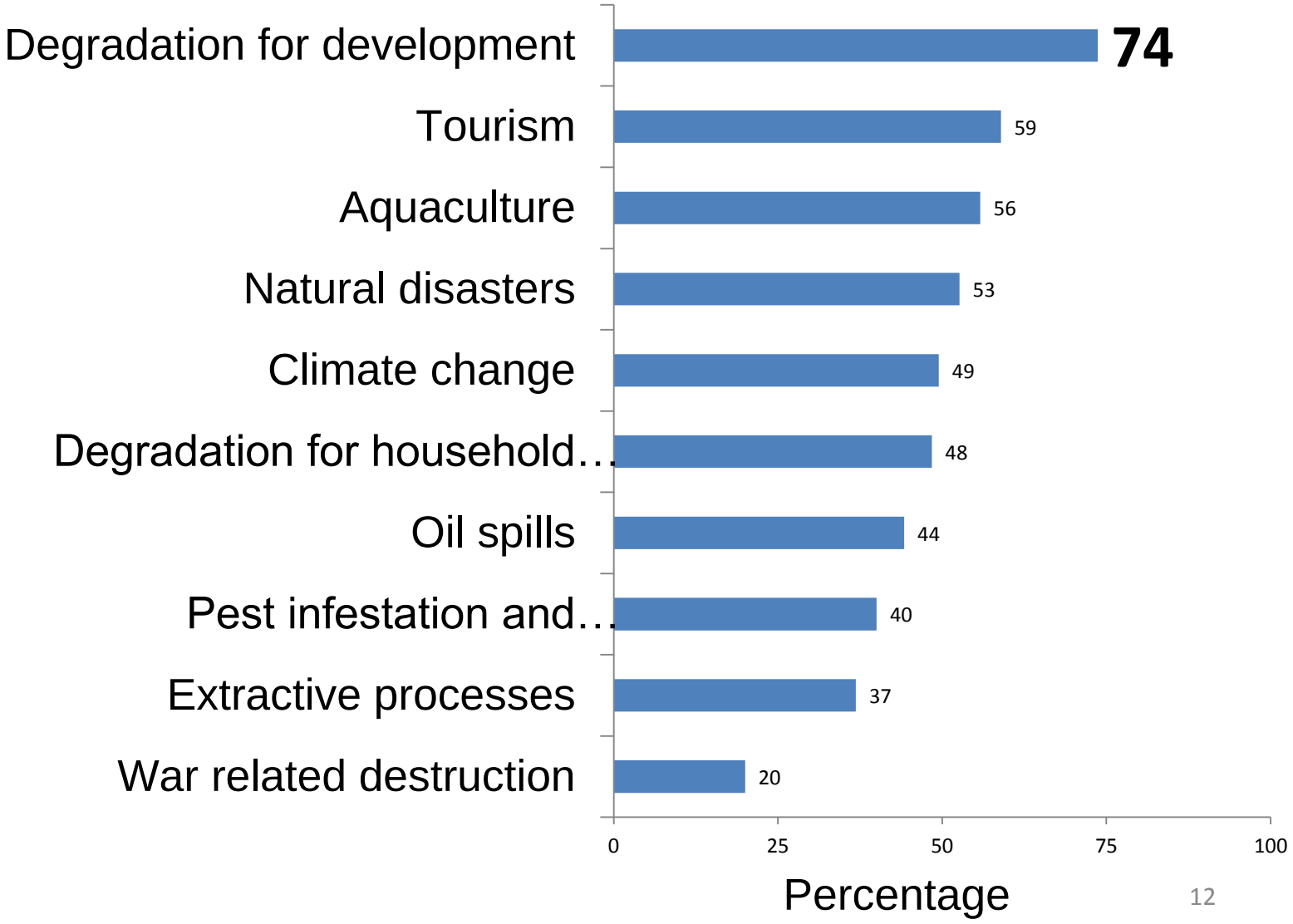
Results

Name of country	Number of respondents
Australia	4
India	3
Brazil	2
South Africa	2
Mexico	2
USA	1
Bangladesh	1
Kenya	1
Kiribati	1
Indonesia	1
Sri Lanka	1

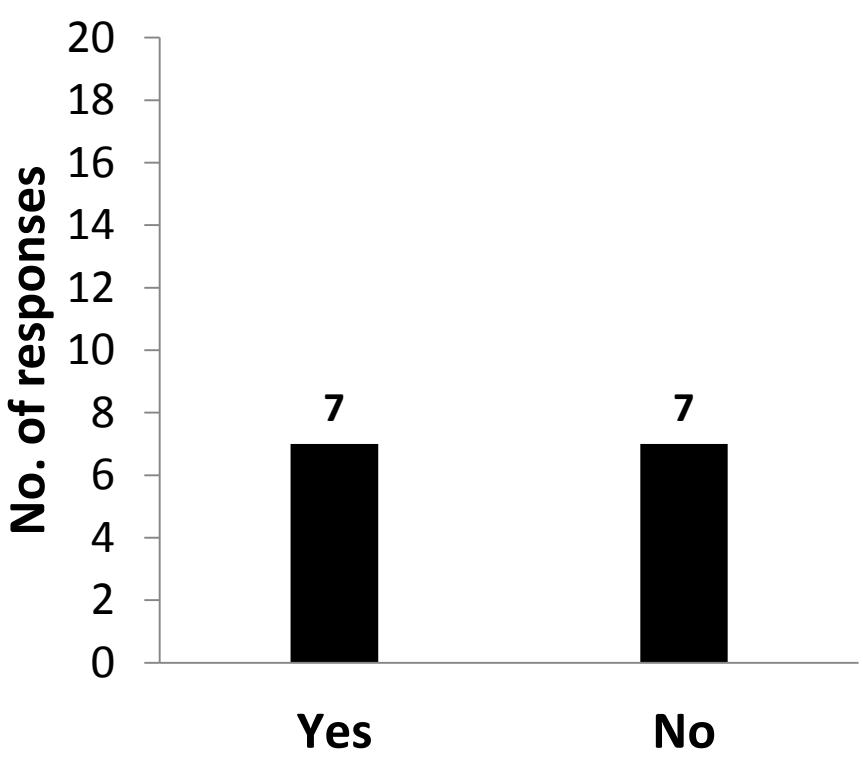
Spatial scale of threats



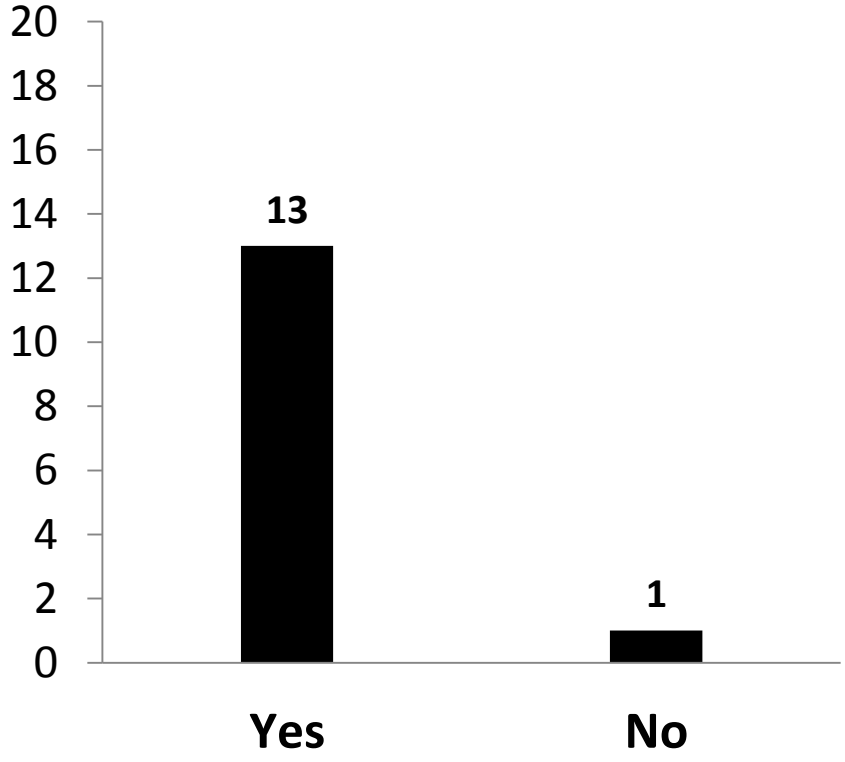
Intensity of threats



To be or not to be...

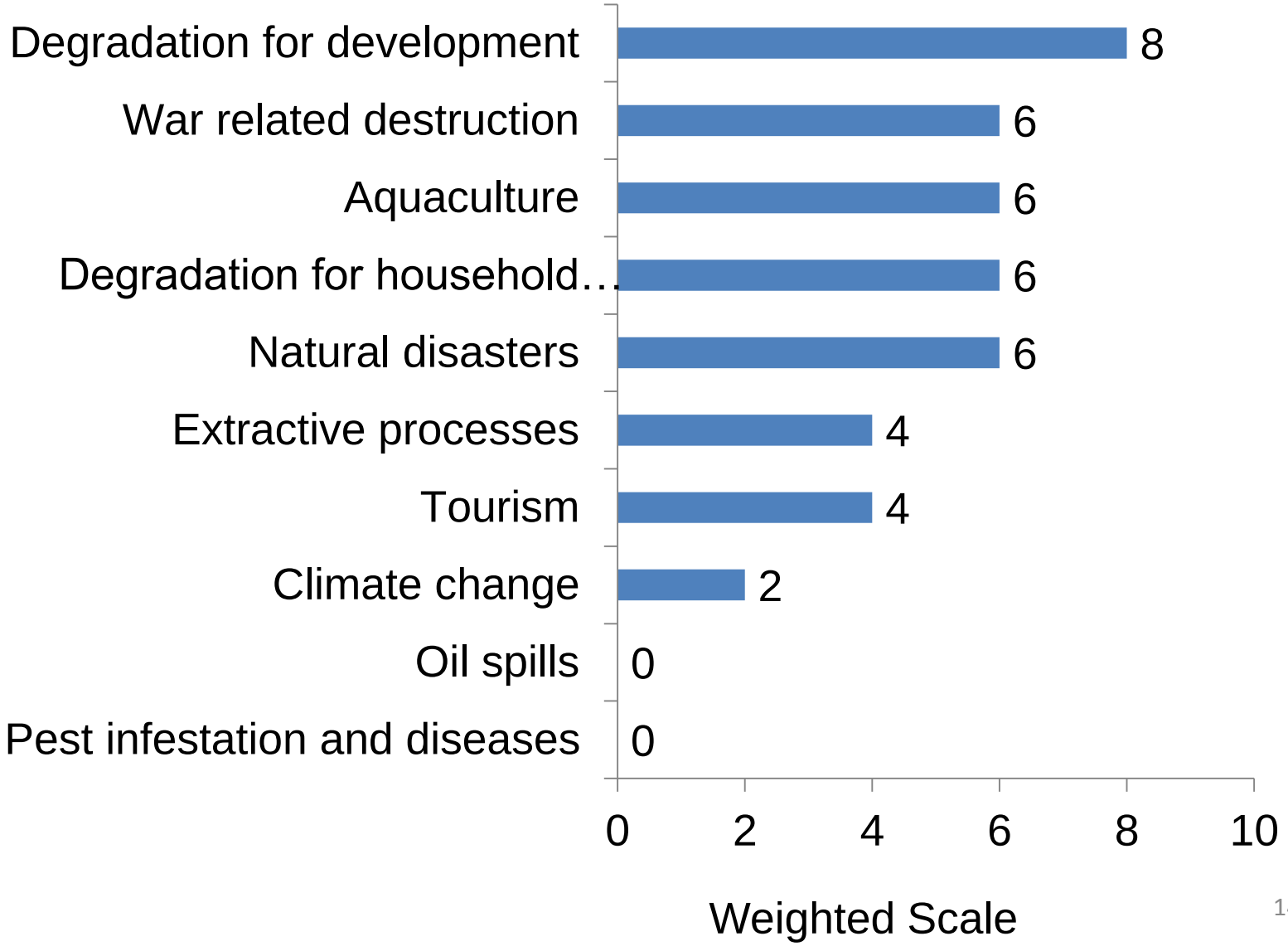


Natural restoration?

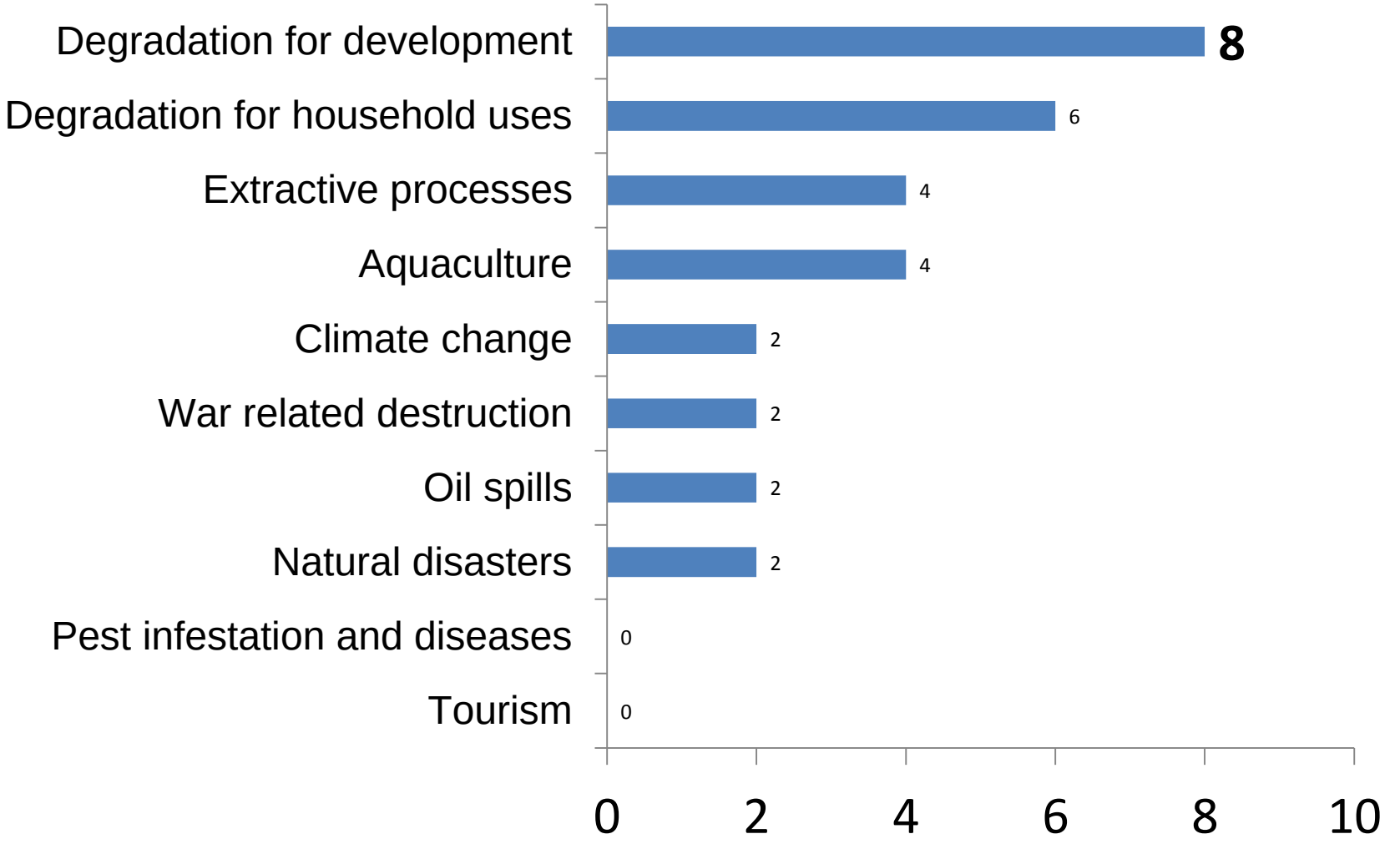


Human induced restoration?

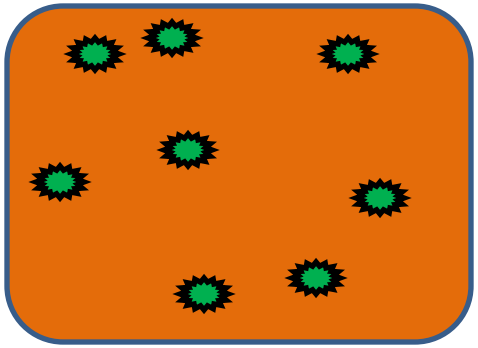
Natural restoration

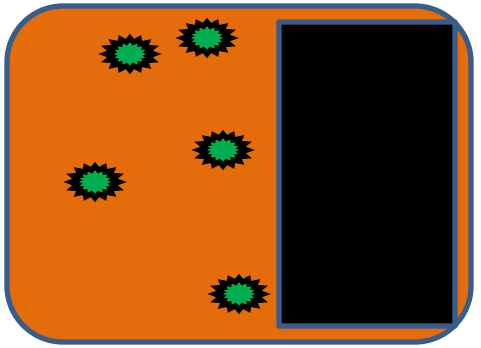


Human induced restoration

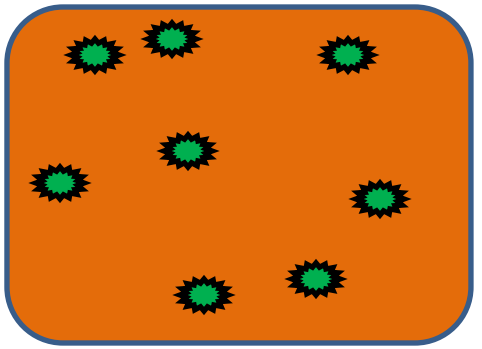


What if....





?



Biomass= 300—400t/ha
Max height= 50m
Recruitment= 390/ha (Putz and Chan, 1986)

Back to normal

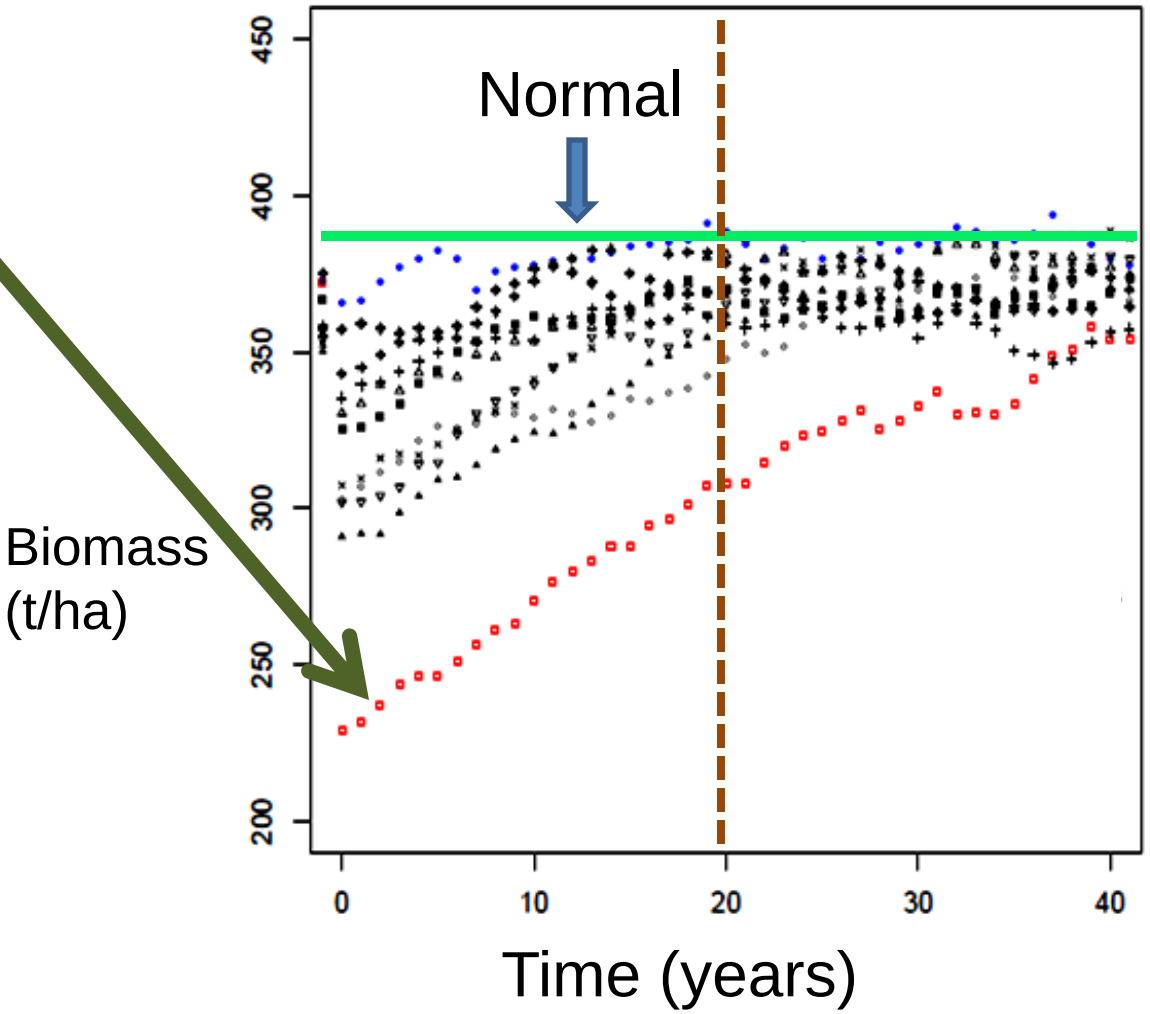
1 Development

2 Tourism

3 Pests

4 Extractive processes

5 Climate change



Recovery times

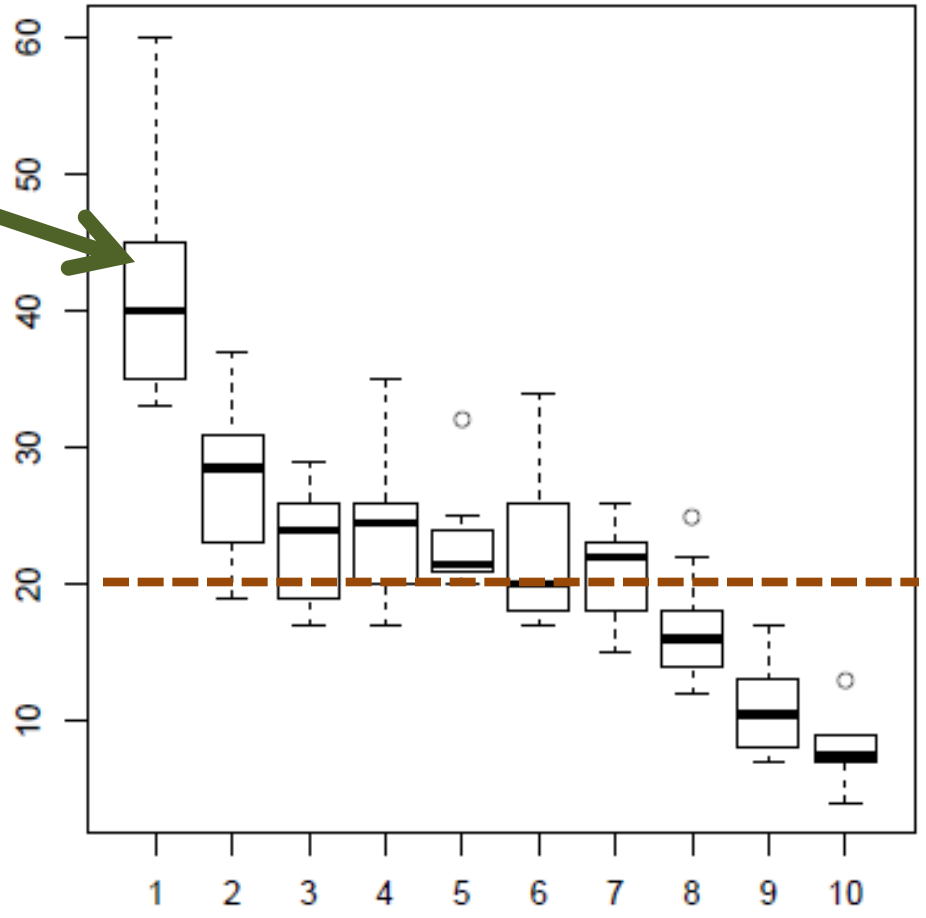
1 Development

2 Tourism

3 Pests

4 Extractive processes

5 Climate change



Conclusion

(Retrogressive) Development?

Recovery times relatively fast

Time to rethink

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Mangroves