

Offshore wind energy impacts on seabirds:



Current evidence and research directions

Nilsson ALK, Stien J, Reiertsen TK, Grainger M, Strøm H & Layton-Matthews K



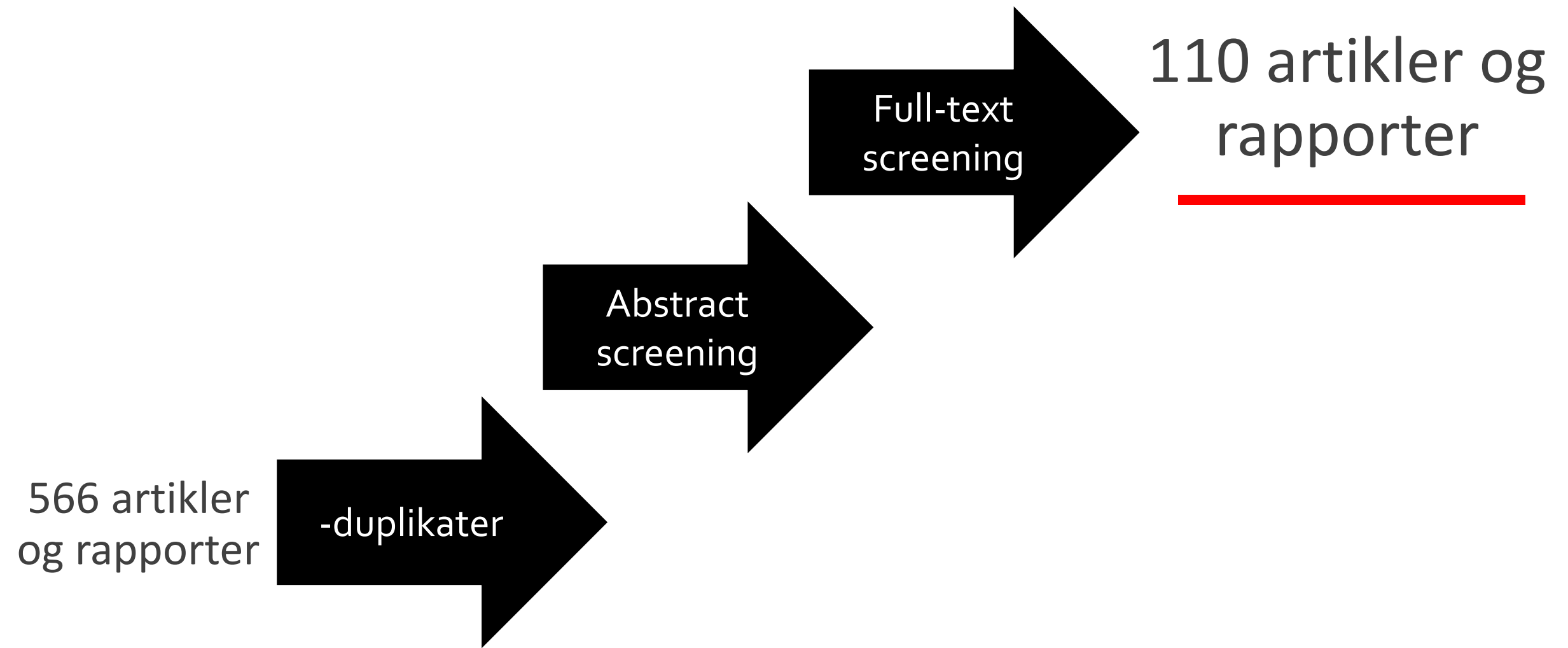
Webinar 29.10.2025



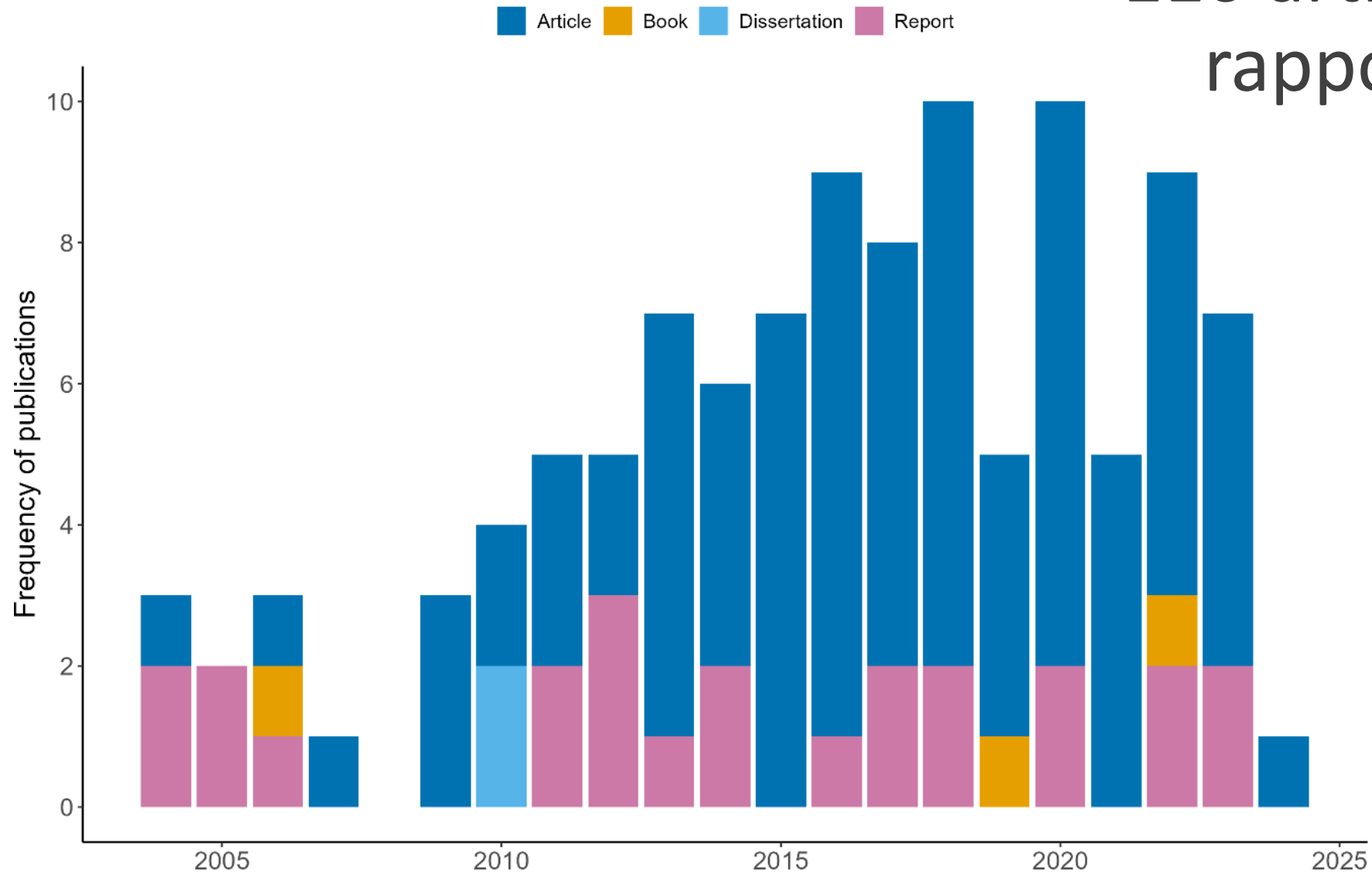
Systematisk scoping review:

What are the impacts of offshore wind on seabirds?

Sjøfugl	Havvind	Effekt
Sule* Måke* etc	Turbin* Vindpark* etc	Kollisjon* Unnvikelse* etc



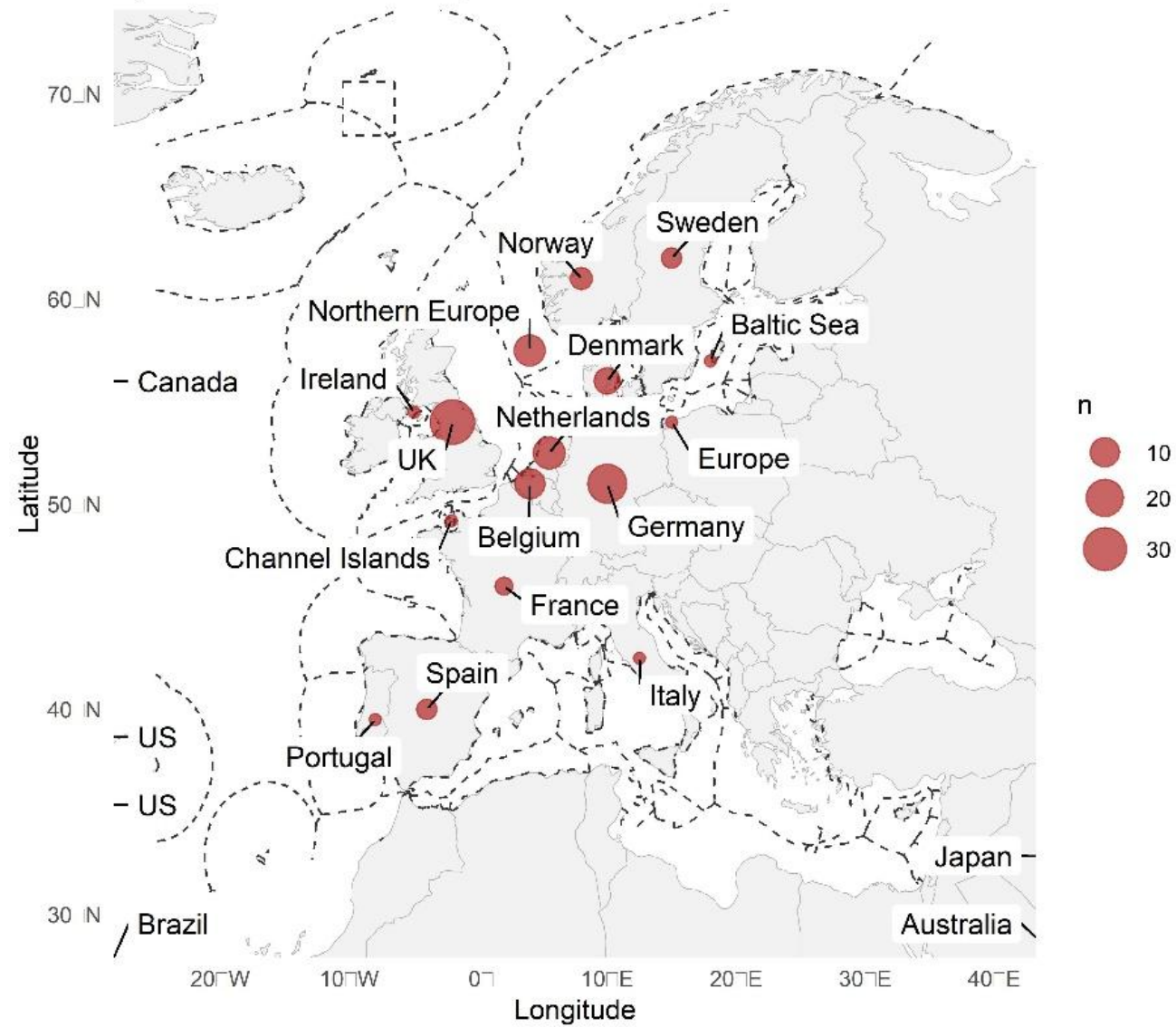
110 artikler og rapporter



B) OWF studies globally

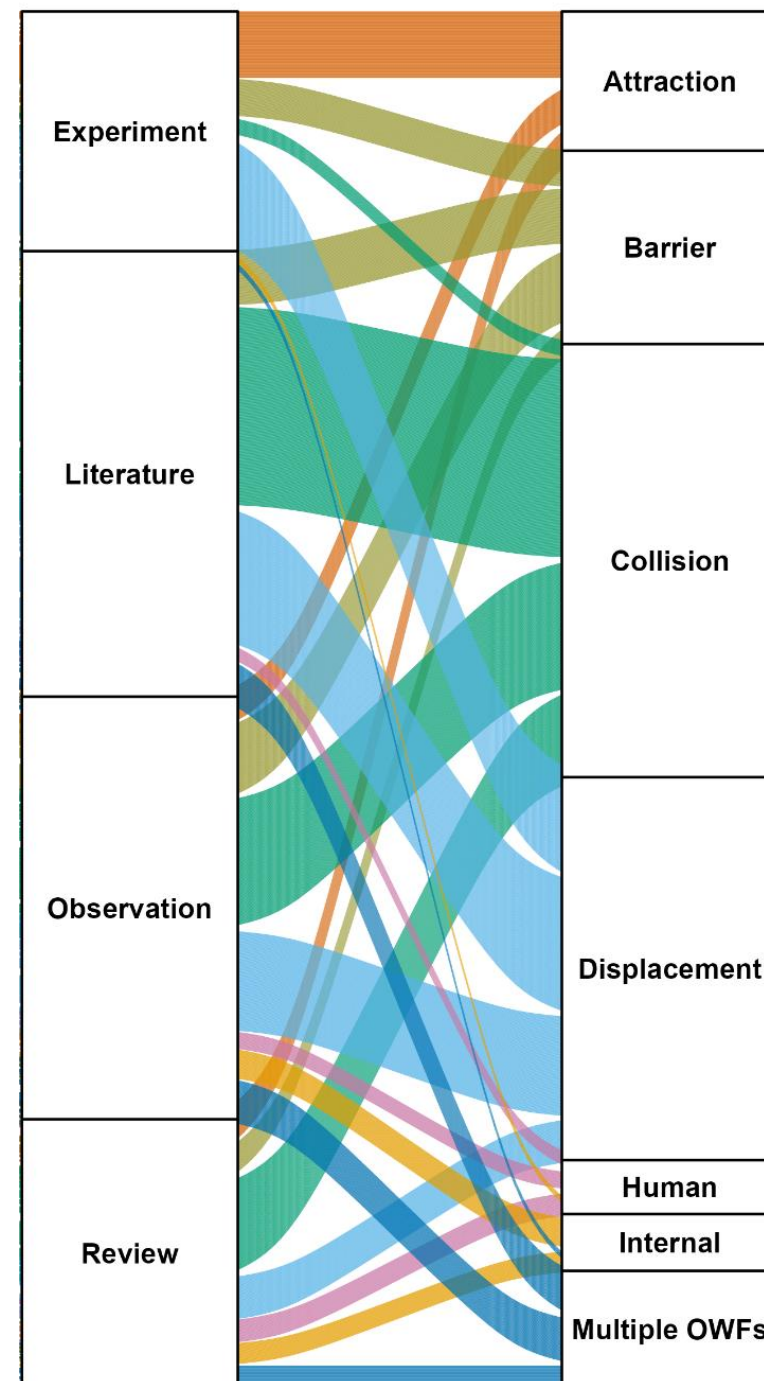


A) OWF studies in Europe



Havvind effekt kategori	Antall studier
Kollisjon	66 ←
Barriere	33
Unnvikelse (habitat tap)	60 ←
Innenfor havvindparken	11
Attraksjon	21
> 1 havvindpark	28
Andre kumulative stressorer	6

- 17/110 eksperimentelle studier (<12%)
- Mange litteraturbaserte
- Overraskende mange reviews (ikke-systematiske)
- Mye om kollisjoner - men lite empiri (n=1)

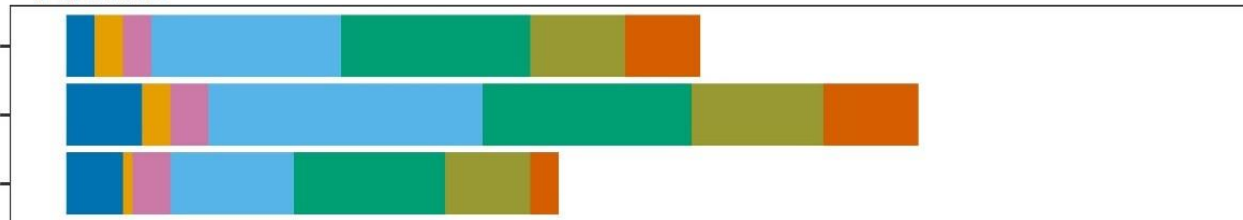




Antall studier

Alcids

Razorbill
Common guillemot
Atlantic puffin



N = 43

Gannets

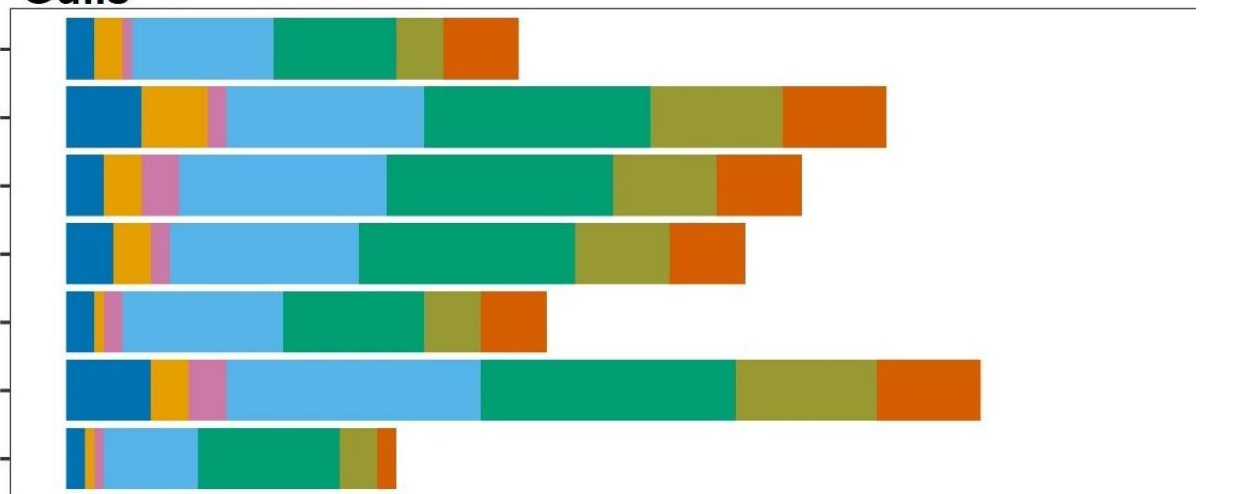
Northern gannet



N = 54

Gulls

Little gull
Lesser black-backed gull
Herring gull
Great black-backed gull
Common gull
Black-legged kittiwake
Black-headed gull



N = 58

Antall studier

N = 21
N = 33
N = 66
N = 60
N = 6
N = 11
N = 22



Kunnskapshull:

- Få eksperimentelle før-etter-kontroll studier (BACI)
- Få empiriske studier på populasjonsnivå
 - Individ → bestandsnivå
 - Kumulative effekter
- Få studier over lengre tid
- Få studier andre steder enn Europa
 - Asia spesielt
- Avbøtende tiltak: nevnt - ikke evaluert
 - Lokalisering

