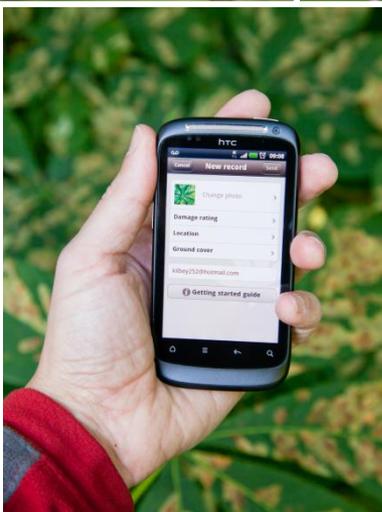


# How does biological recording contribute to monitoring for conservation and research?

## Matching gaps in recording to information needs

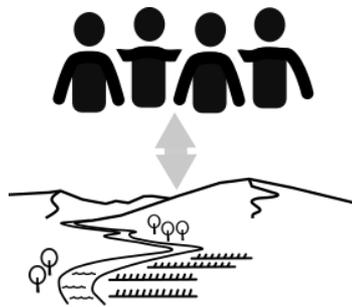
Michael Pocock







What benefits?



# Recording & use

# Re-use

Beauty, wonder  
Connections with people, places & nature  
Health & wellbeing  
→ Mapping



Evidence to support & evaluate decision-making (management & policy)

Welsh assembly, Senedd, Cardiff  
Julian Nitzsche via Wikipedia



JNCC Report  
No: 618

An assessment of the biodiversity information needs of the UK's  
environmental public bodies

Michael J.O. Pocock

On behalf of the Terrestrial Surveillance  
Development & Analysis (TSDA) Partnership:  
JNCC, Centre for Ecology & Hydrology and British Trust for Ornithology

August 2018



**Evidence to support & evaluate decision-making (management & policy)**

Welsh assembly, Senedd, Cardiff  
Julian Nitzsche via Wikipedia

Unstructured



Semi-structured

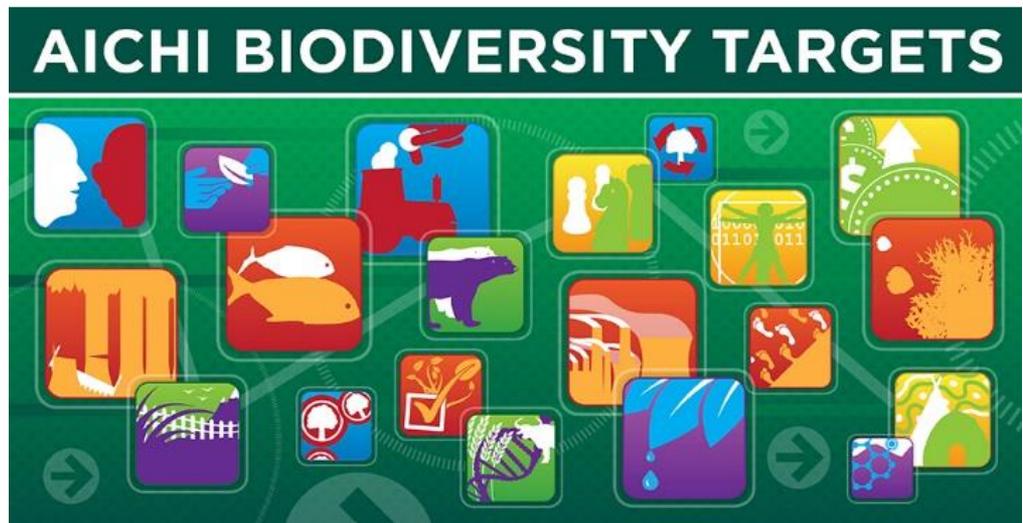


Structured



# Needs for biodiversity information 1

- Operational & day-to-day needs
  - Providing advice – policy, decision-making (e.g. planning), regulatory
  - Mandated reporting (5-6 year cycle)



# Needs for biodiversity information 2

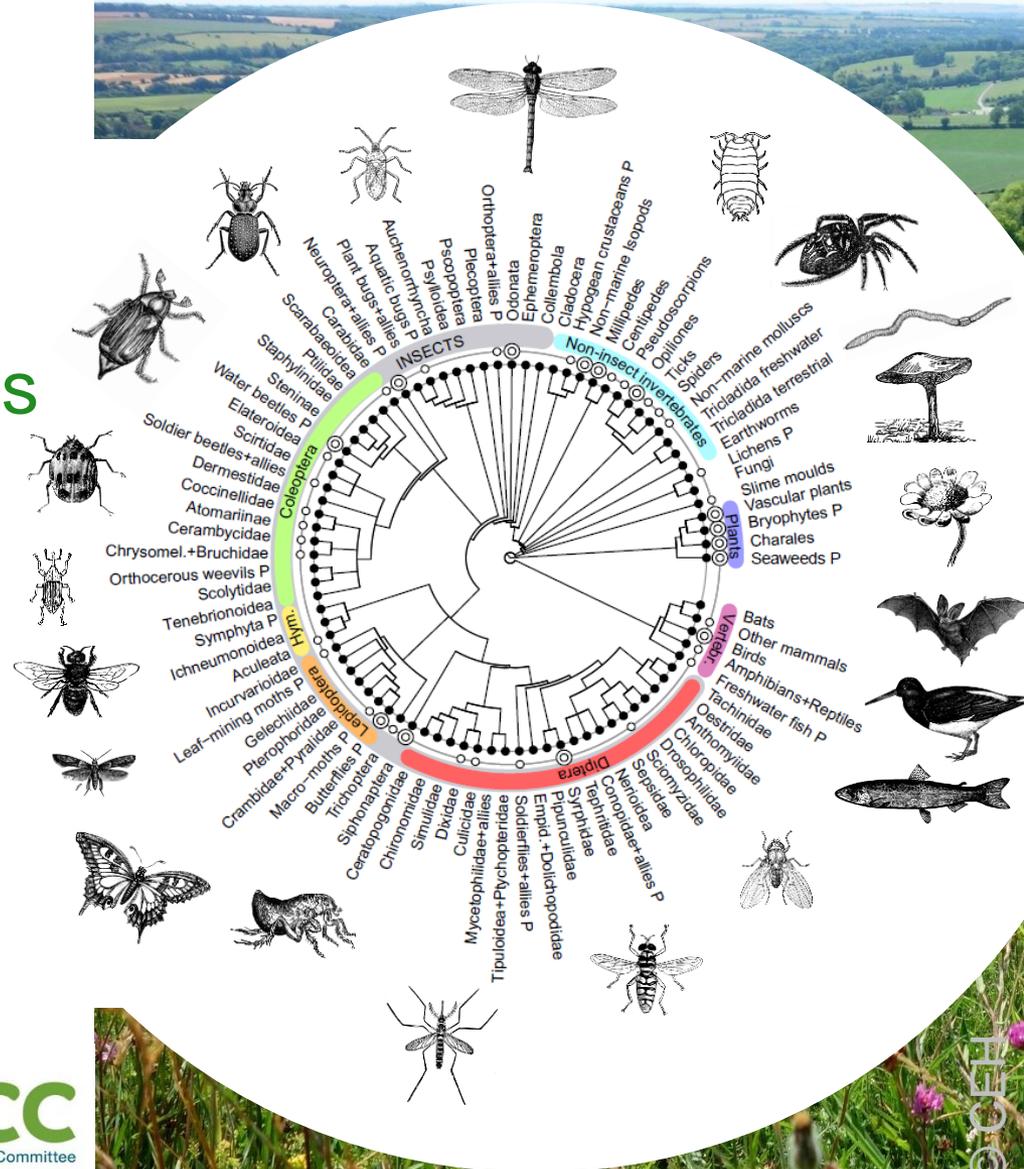
- Strategic needs
  1. State → ecological function
  2. Evaluate interventions
  3. Comprehensive, balanced metrics of ecosystem 'health'



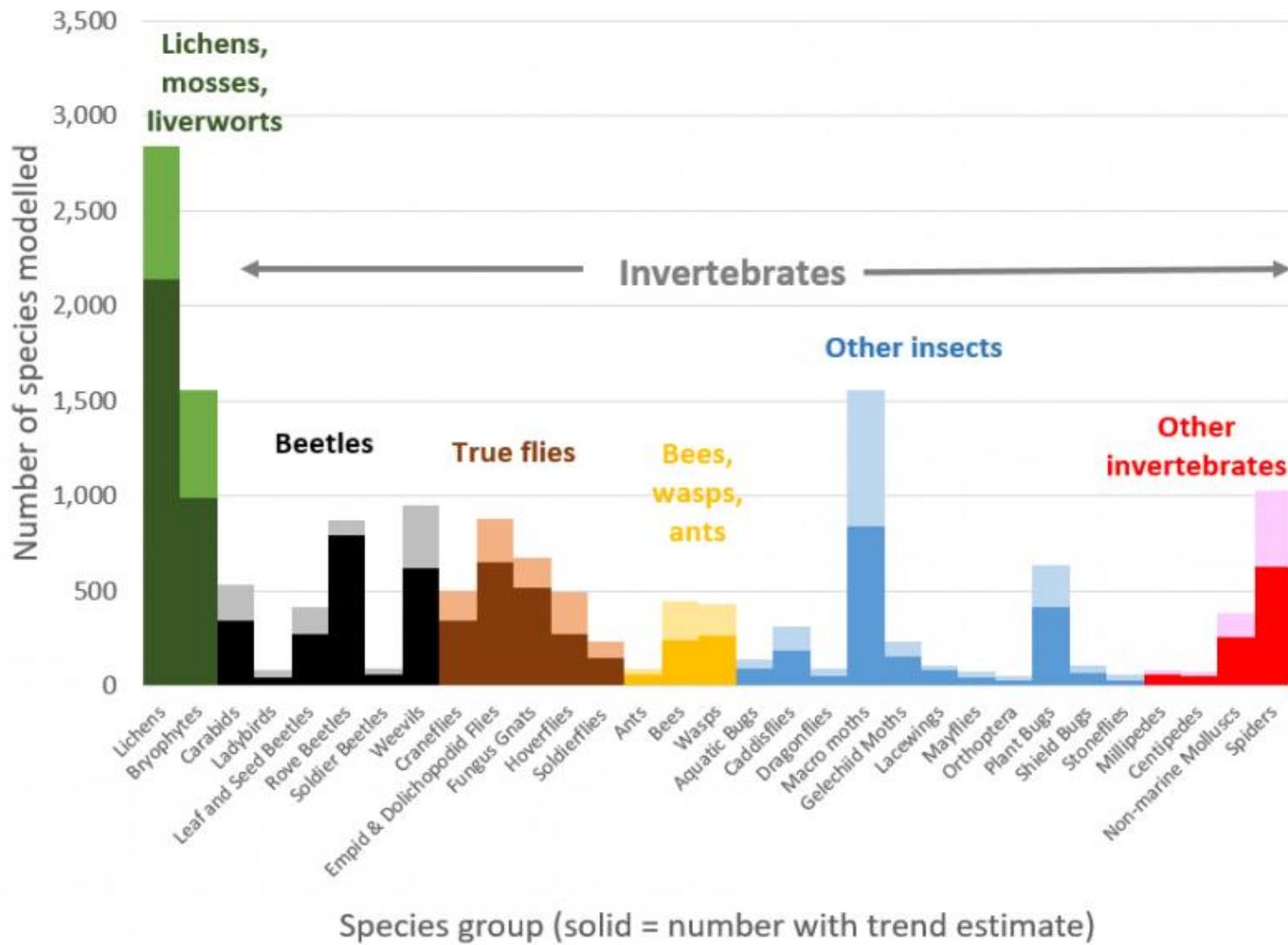
# Needs for biodiversity information 2

- Strategic needs

1. State → ecological function
2. Evaluate interventions
3. Comprehensive, balanced metrics of ecosystem 'health'



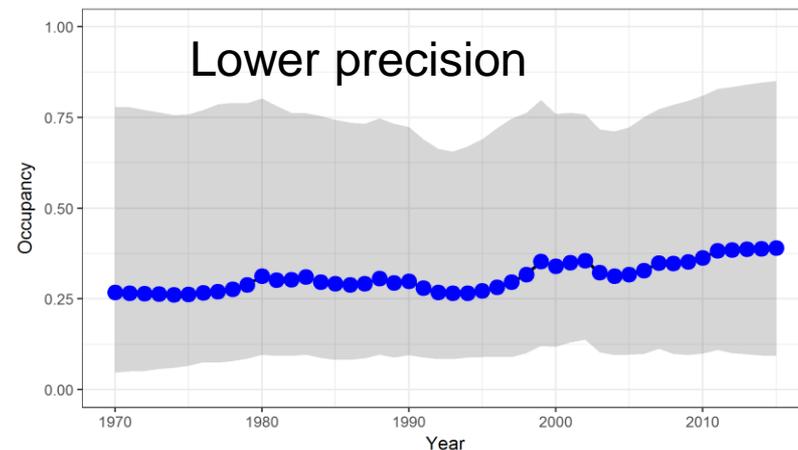
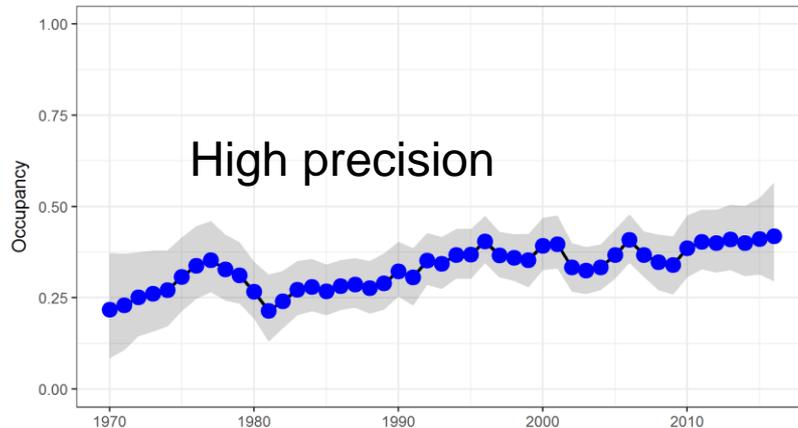
# Occupancy trend modelling



Charlie Outhwaite, Gary Powney, Tom August, Jack Hatfield,  
Colin Harrower, Bjorn Beckmann and Nick Isaac

# Occupancy trend modelling

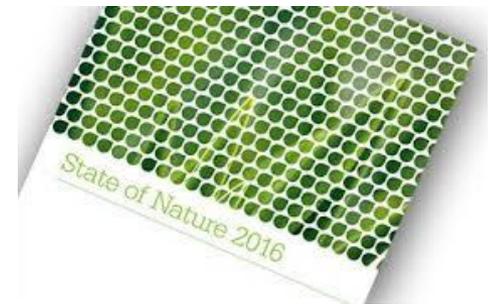
- Occurrence + detection = occupancy trends
- Models can take weeks to run!



Rules of thumb for

‘acceptable’  
precision

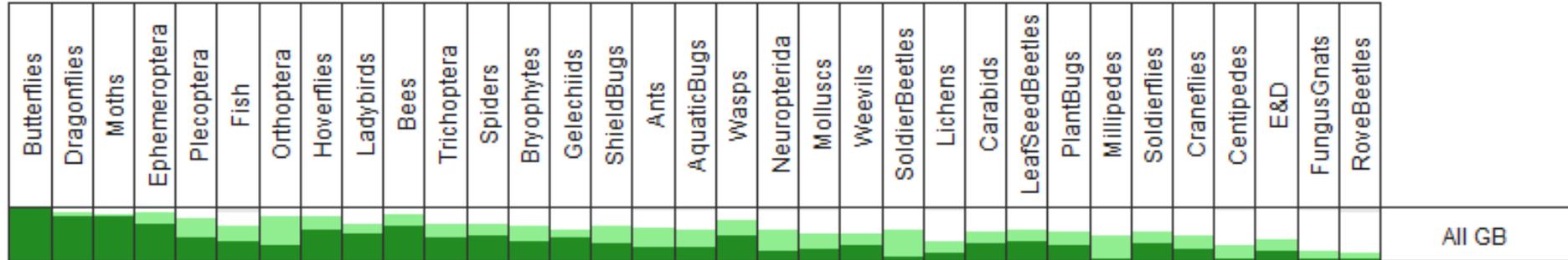
‘high’  
precision



*Work done under TSDA project with JNCC & BTO*

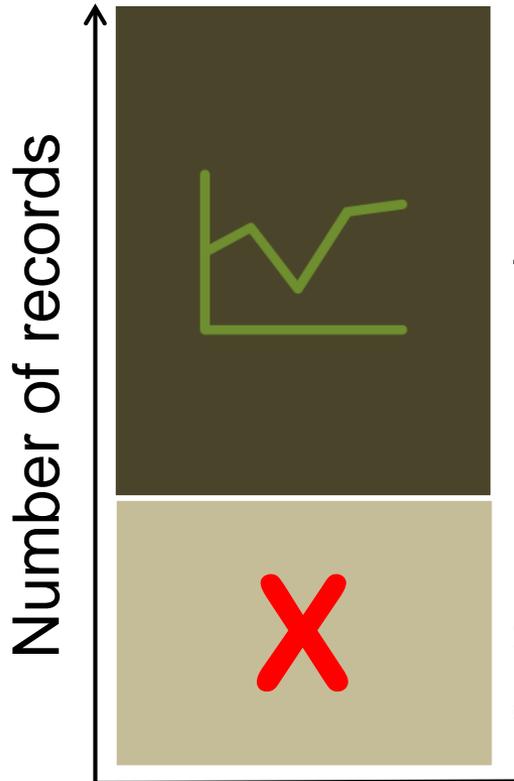
# Identifying gaps & opportunities?

Predicted precision:  High  Acceptable  Poor  No data



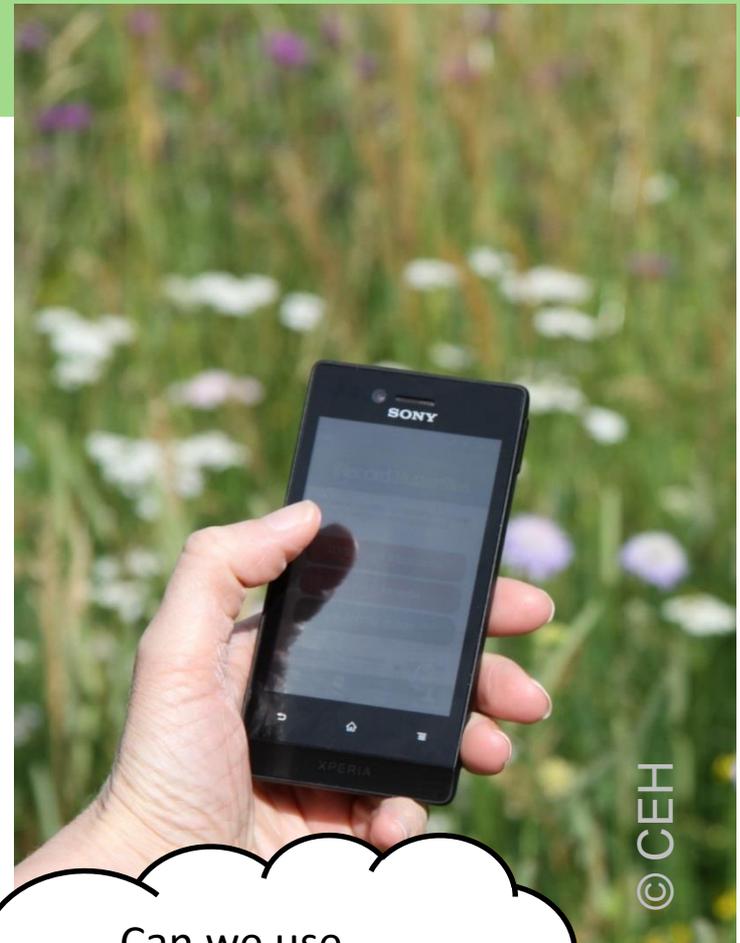


# An easy win?



Data points used for trend analysis

Data points from sites visited in only 1 year



Can we use technology to 'nudge' people to re-visit these sites?

