

- Need to choose your question:
- 1. What is the impact on biodiversity if we source timber from forest X?

Or

2. Can we guarantee to clients that if we source timber from forest X it will have no negative impacts on biodiversity?

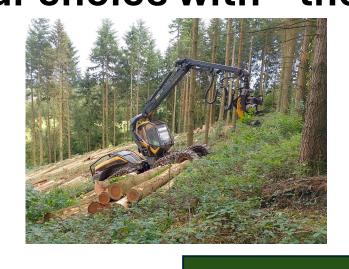
John Healey

Professor of Forest Sciences



To answer such questions, we need to decide: What alternative scenario should we compare our choice with – the "counter-factual"?





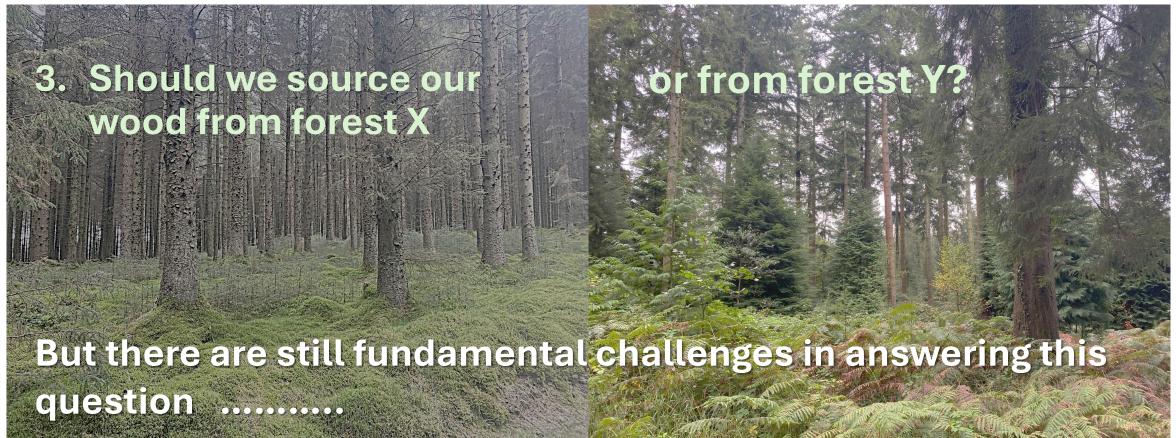




- Compare biodiversity of forest managed for wood production with an equivalent forest left unharvested?
- Or one managed as a nature reserve?

Or can we make the counter-factual more explicit in our question? E.g.









OR

Conserve biodiversity within the production forest ("land sharing")?



OR"offset" elsewhere ("land sparing")



PRIFYSGOL

BANGOR

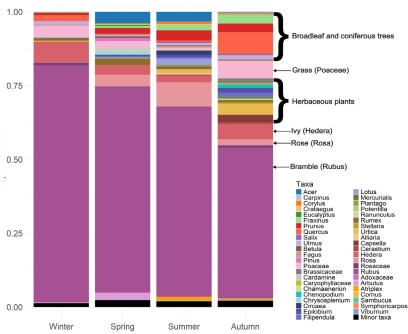
UNIVERSITY

Judge performance by actions or by outcomes?

- if actions, are they "additional"?
- if outcomes,
 - what measure of biodiversity?
 - are they "permanent"?

With sufficient flexibility to enable forest resilience to be maintained by future "adaptive" forest management?





If comparing alternative source forests,

PRIFYSGOL

BANGO

UNIVERSITY

should the answer depend on the biodiversity potential of each site if it was not managed as a forest?



Or a more fundamental question with an in-built counter-factual







Should we use wood from forest X

or not use wood at all (use a different material)?

- Lack of a rigorous framework to compare impacts on biodiversity of alternative materials
 - no suitable LCA framework for biodiversity

Across all four questions:

What will be the overall impact on biodiversity if forest X is not managed to produce timber for our use?

PRIFYSGOL BANGOR UNIVERSITY

This raises the big consideration:

 Is our focus only on the biodiversity that exists in forest X, or the net effect of our decision on global biodiversity?

Leakage from reducing timber production in forest X –
e.g. potential biodiversity costs of using imported timber
 Versus: threats to biodiversity from deforestation if global forests are not valorized by sustainable wood production





Take home message



