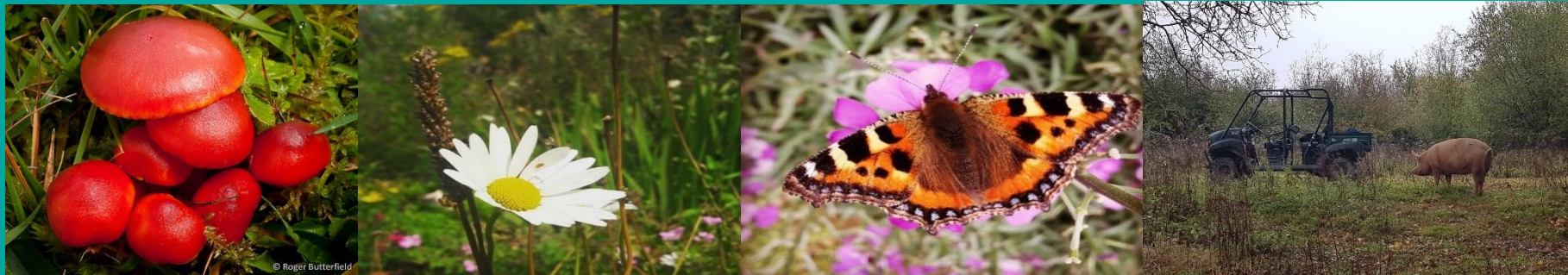




Measuring Rewilding

Cain Blythe CEnv MCIEEM and Sara King MCIEEM



Why Rewilding in UK?

- Evidence to suggest nature is recovering across Europe
- Believed to restore natural processes and ecosystem function
- Its an open ended process with no targets or end product
- Trophic rewilding – can escalate nature recovery at landscape scale

Does Rewilding Work?



Measuring Rewilding



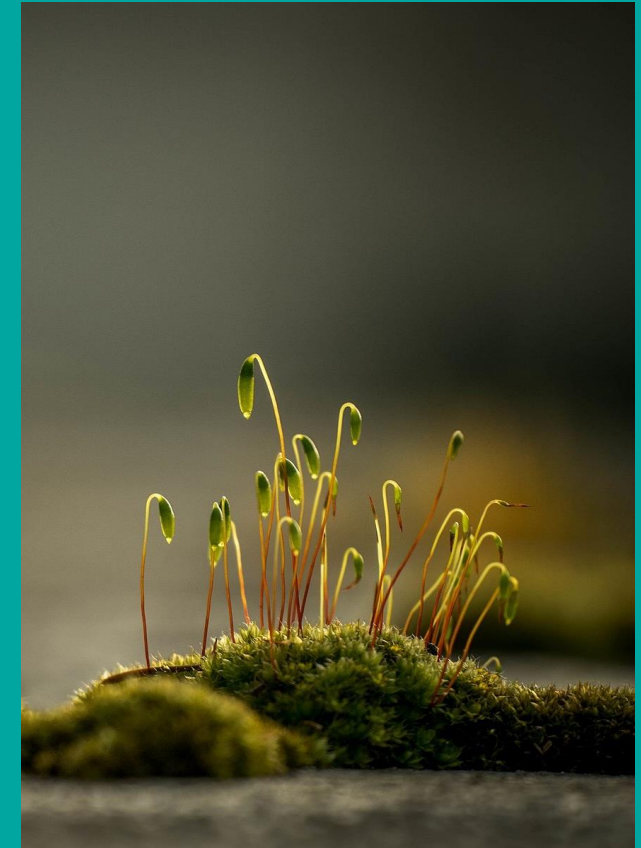
“We will develop better measures in areas such as how ecological systems are functioning”

Trophic Species Monitoring Framework

Framework for Biodiversity Assessment Trophic Species Scientific Paper

- 181 scientific paper reviewed
- 5 carnivores, 12 herbivores, 2 omnivores
- Identified impacts and associated functional indicators
- 8 functional indicator groups identified

Collaborating with Jens-Christian Svenning – BIOCHANGE, Aarhus University



Which Indicators?

1. Simple to use and survey effort is standardised.
2. Provide consistent biodiversity quality metrics.
3. Link data between indicator taxa and habitat types.
4. Monitor trends and key environmental events.



How to Measure?

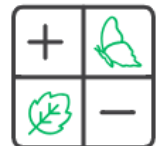


Biodiversity Quality:

A quality of a site that can be extrapolated from a number of measured functional characteristics of the populations studied (Feest, 2006)

Biodiversity Quality Calculator

- Innovative tool based on scientific research and has been published in over 40 Scientific papers, including Ecological Indicators
- It has been tested for over 15 years
- Assesses impacts and trends in Ecosystem Function
- Uses multiple indicators including biomass, species rarity, evenness, abundance
- Unique indicators such as FEEST index



**Biodiversity Quality
Calculator**

Biodiversity Assessment Species Reintroduction

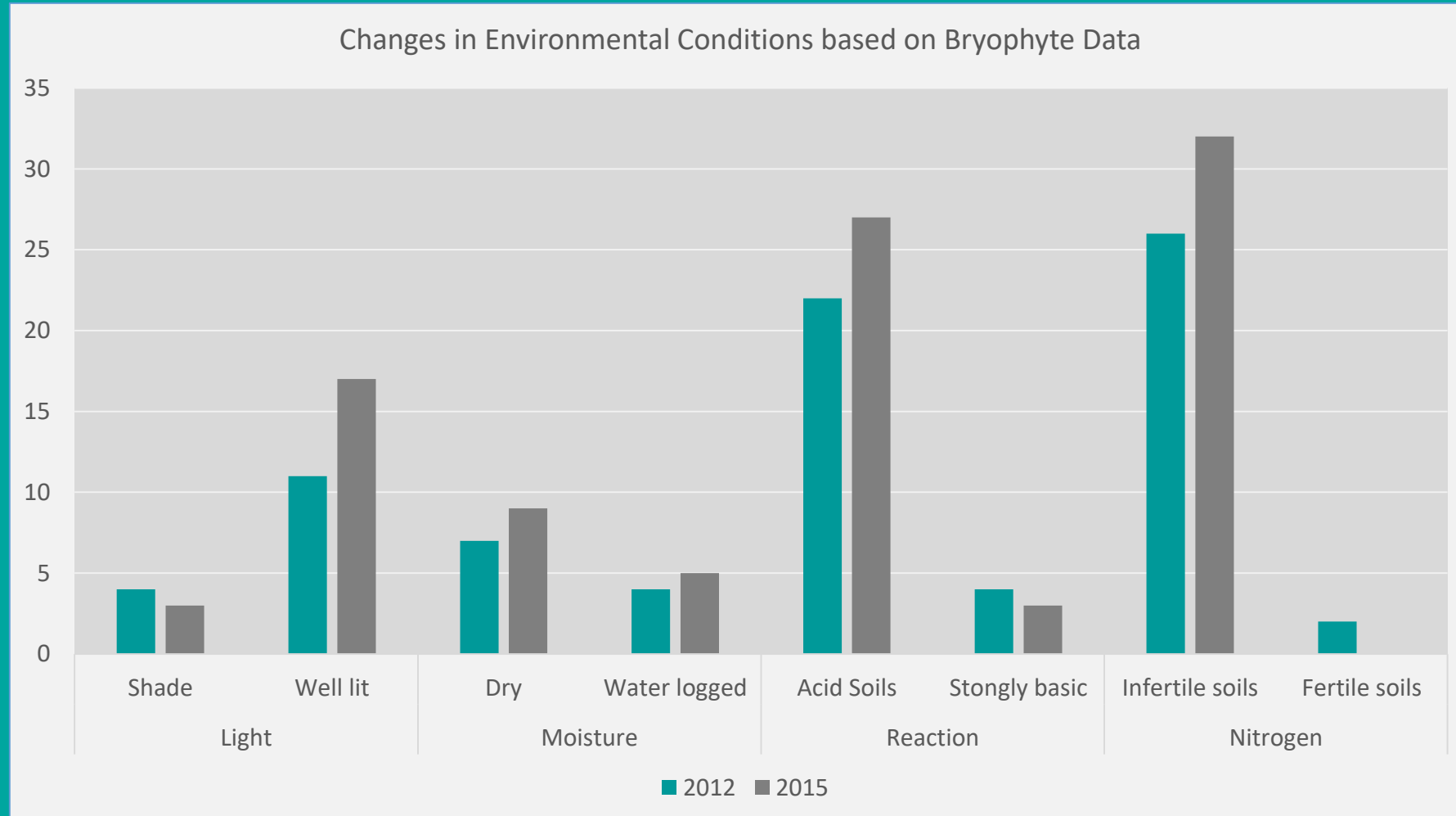
- Undertaking Biodiversity Assessment on:
 - 5 x Beaver reintroduction sites in England and Wales
 - 2 x Pine Marten reintroduction sites in England and Wales
 - 1 x Large herbivore reintroduction in Scotland
 - 1 x Water buffalo site in Wales
- We are also assessing:
 - 6 x Large scale land restoration sites



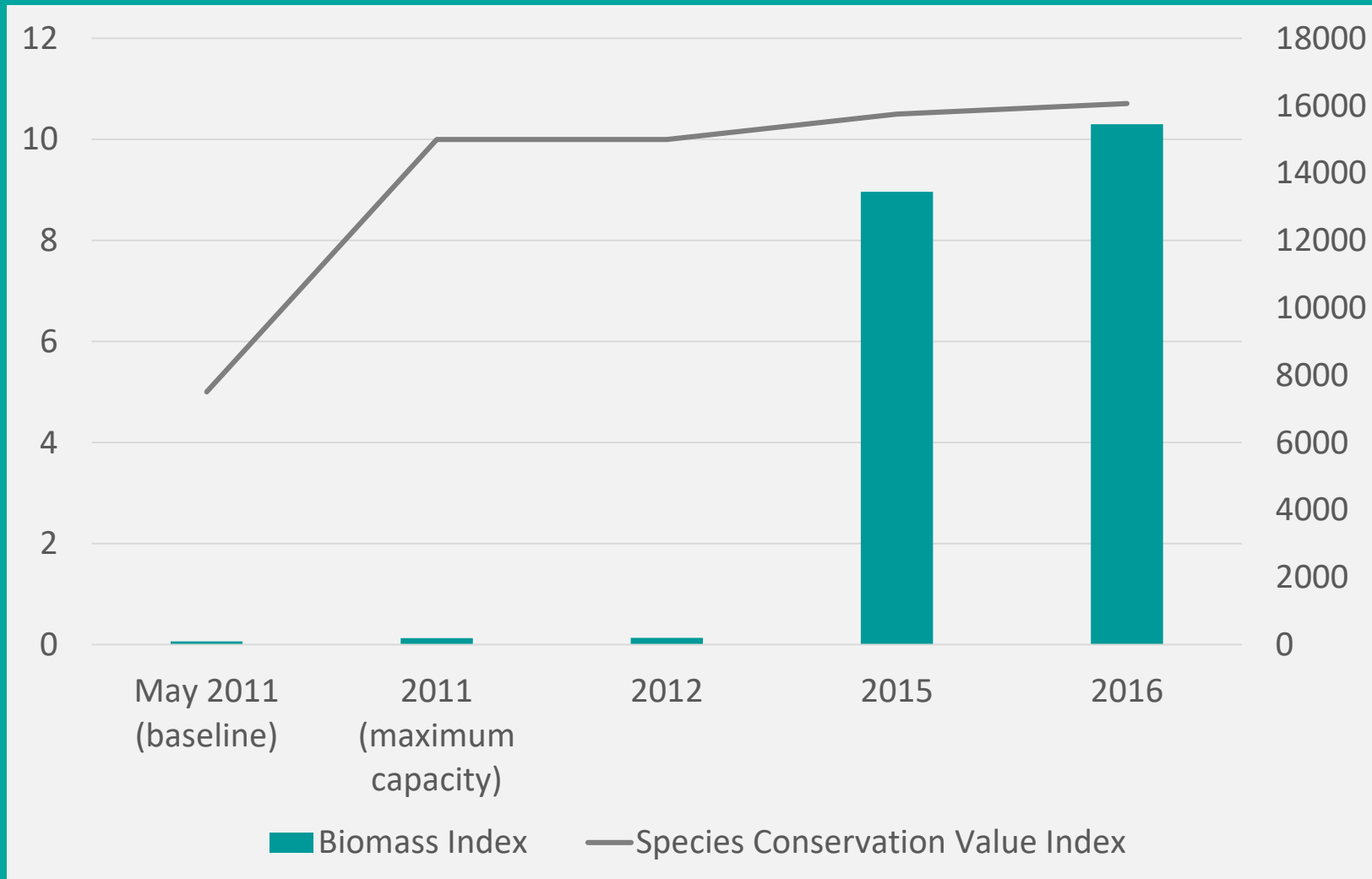
Beaver Reintroduction Sites



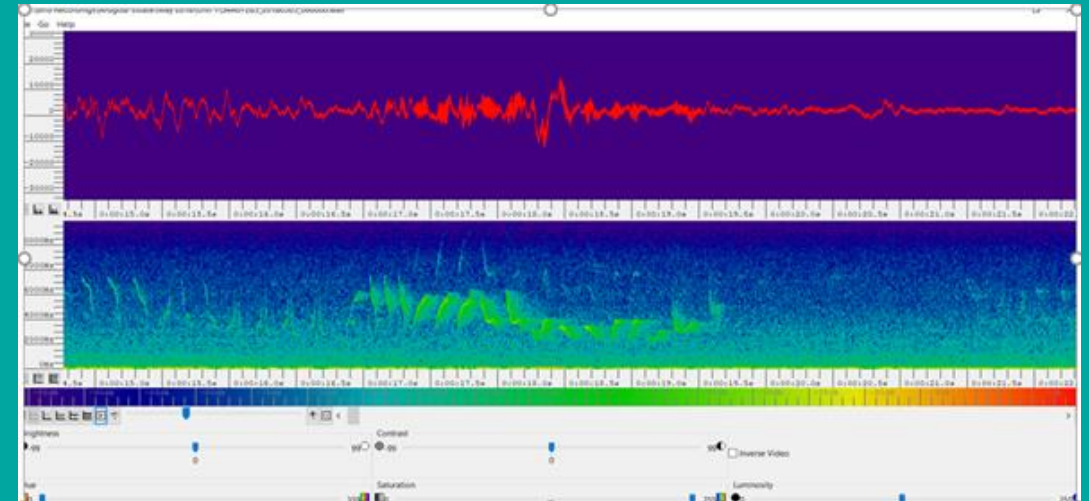
Beaver Reintroduction Sites



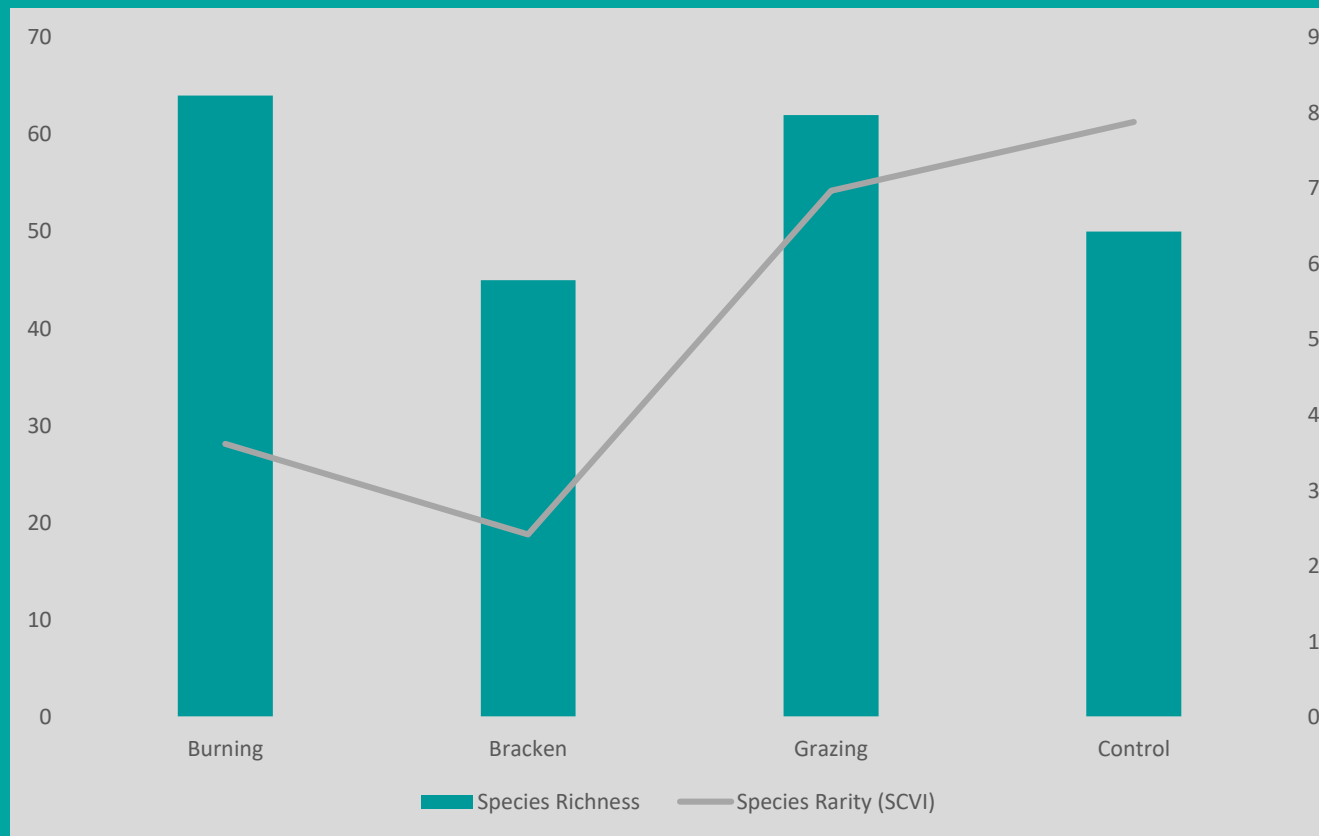
Beaver Reintroduction Sites - Bats



Pine Marten Reintroduction Sites



Rewilding and Traditional Conservation Management



Recovering Nature?



Future Focus



Knepp Estate

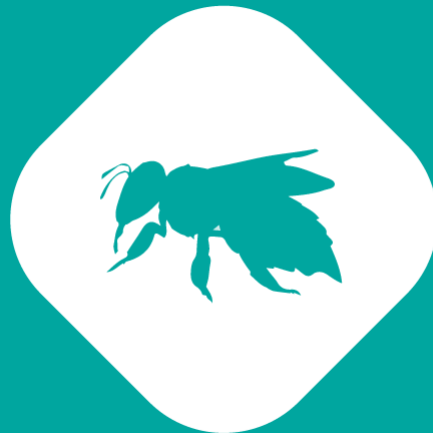


Get Involved

- Beta Testers for our online tools
- Collaborations for landscape scale projects
- Free Trial of our software
- Leave us your details or email sara.king@ecosulis.co.uk

Thank you for your time!

cain.blythe@ecosulis.co.uk
sara.king@ecosulis.co.uk



Many thanks to Daniel
Allen for allowing us use
of his photos