



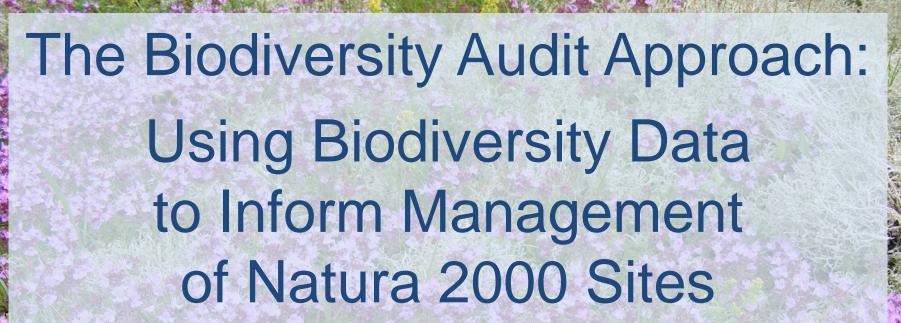


The Biodiversity Audit Approach

Paul Dolman

Conservation Ecologist, University of East Anglia, UK

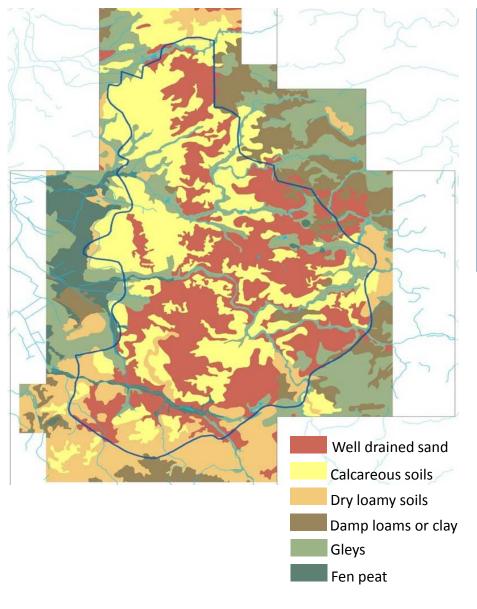
p.dolman@uea.ac.uk







Breckland Region 1020 km²



- Drier climate
- Sandy, low-nutrient soil
- Important biodiversity
- EU Natura 2000 Sites
- Historic human land-use

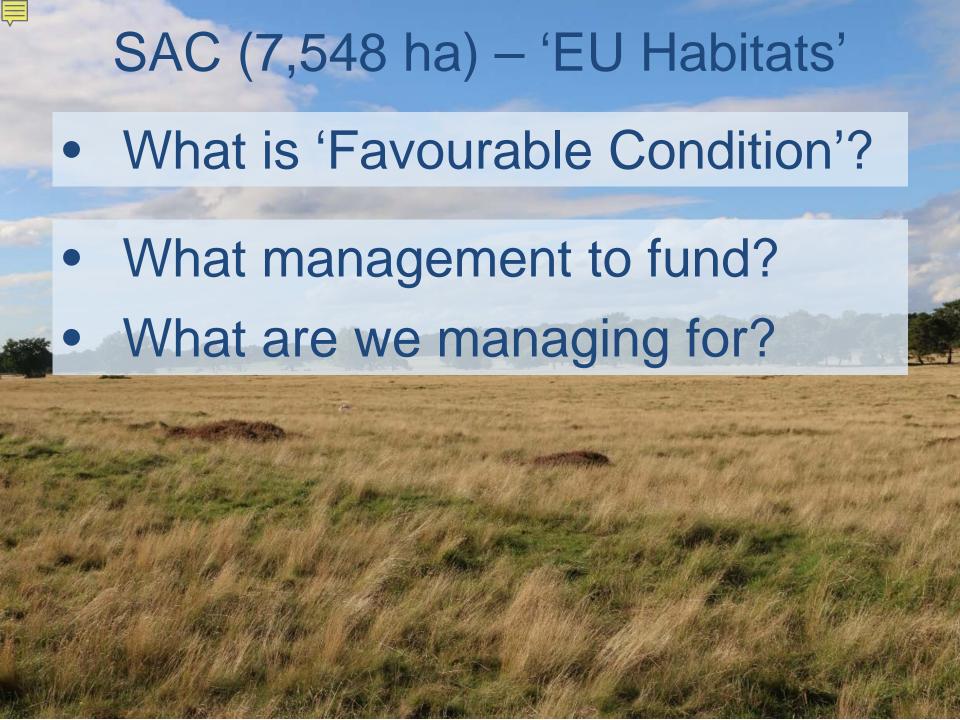






Breckland SPA – 3 Bird Species

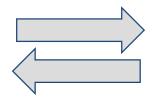






The Biodiversity Audit Approach

Biodiversity



Landscape

What biodiversity?

Where is it?

How to mange? (needs for multiple taxa)



Evidence-based

Simplified guidance

Spatial targeting

ES-BD trade-off

Integrated groups of species Cost-effective delivery



Stakeholders: FC, NE, Norfolk & Suffolk Biodiversity Partnerships, Brecks Partnership, NBIS, SBRC, Plantlife, County Wildlife Trusts, Butterfly Conservation, Buglife

>800,000 Species Records Advice from 80+ Expert 'Amateurs'

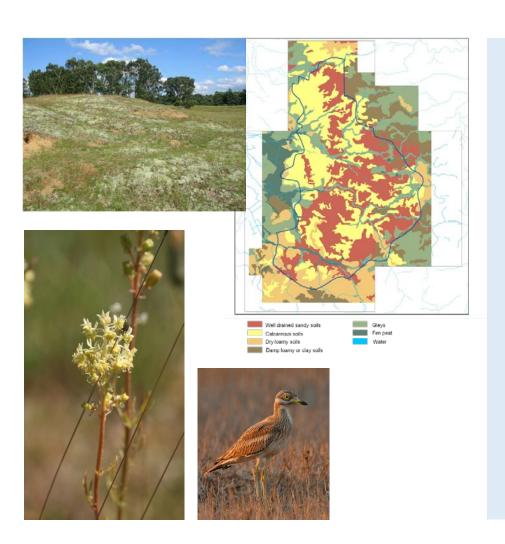




Taxonomist & Manager workshops: validating records, identifying regional specialists, discussing requirements, prescriptions and outcomes



What 'Biodiversity'?



12,845 species

2,149 priority species

(BAP / S41, Nationally Rare, Regionally-restricted)

72 regional specialists



How to Manage? Niche, Resource, Process

- micro-habitats
- vegetation structure
- ecological processes
- management actions

















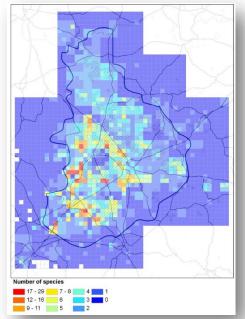


Match & Mis-match in Management

		OPEN (e.g. arable, heath)	OPEN + SCRUB	OPEN + WOODLAND	WOODLAND
Veteran/ Deadwood				VETERAN 3	VETERAN 48
			DEAD W		DEAD WOOD 95
?Grazing ?Dist			O+S	O + W	WOODLAND
			23	85	156
NO GRAZING		NO DIST + NO GRAZING 54	NO DIST + NO GRAZING 8	NO GRAZING 3	
	AL	DIST + NO GRAZING 135	DIST + NO GRAZING 9		
۲-	PHYSICAL	DIST + ? GRAZING 76		DIST 9	
GRAZING	PF	DIST + GRAZING 136	DIST + GRAZING 13		GRAZING
		NO DIST + GRAZING 81	NO DIST + GRAZING 2		8
Grazing		SWARD MOSAIC 62	SWARD MOSAIC		
LANDSCAPE G COMPLEXITY		JUXTAPOSITION 54	JUXTAPOSITION 7		
		WIND BLOWN SAND 9			
		WET + OPEN + WOODLAND 68			
		OPEN + WOODLAND 60			

Evidence Supports 'Best Management'

'Management': Disturbed + Grazed - 149 priority spp., 35 regional

















Mis-match: 'Best Management' Not Widespread

£ 4.2 Million for 4 SSSI's (490 ha, 20 yr @ £430 ha⁻¹.yr⁻¹)



Biodiversity Audit



Cost-effective, evidence based





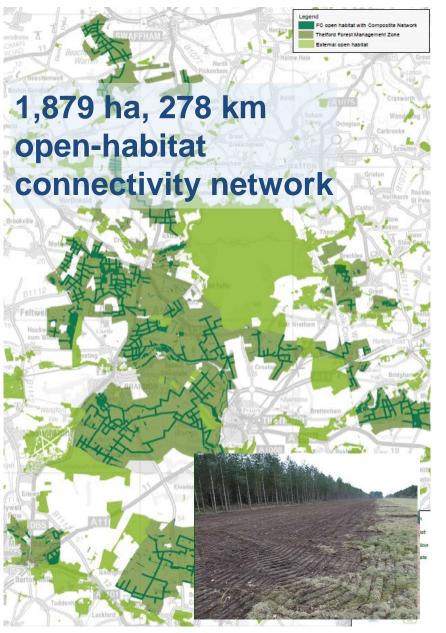
Priority biodiversity damaged

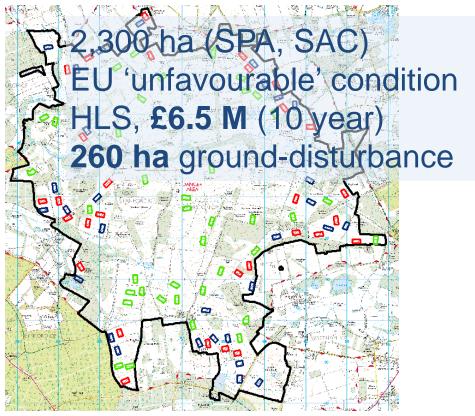




Supports just 7% of 1,237 priority terrestrial species

'Best Management' Rolled-out









The Biodiversity Audit Approach: Summary

- Stakeholder management questions
- Biodiversity data:
- What species, but also...
- Distribution, management needs (ecological processes, niche)
- Citizen science & expert knowledge of stakeholders
- Define integrated 'Management Guilds'
- Evidence-base for better management
- Cost-effective support for priority biodiversity





European Union European Regional Development Fund

Thank you!





