



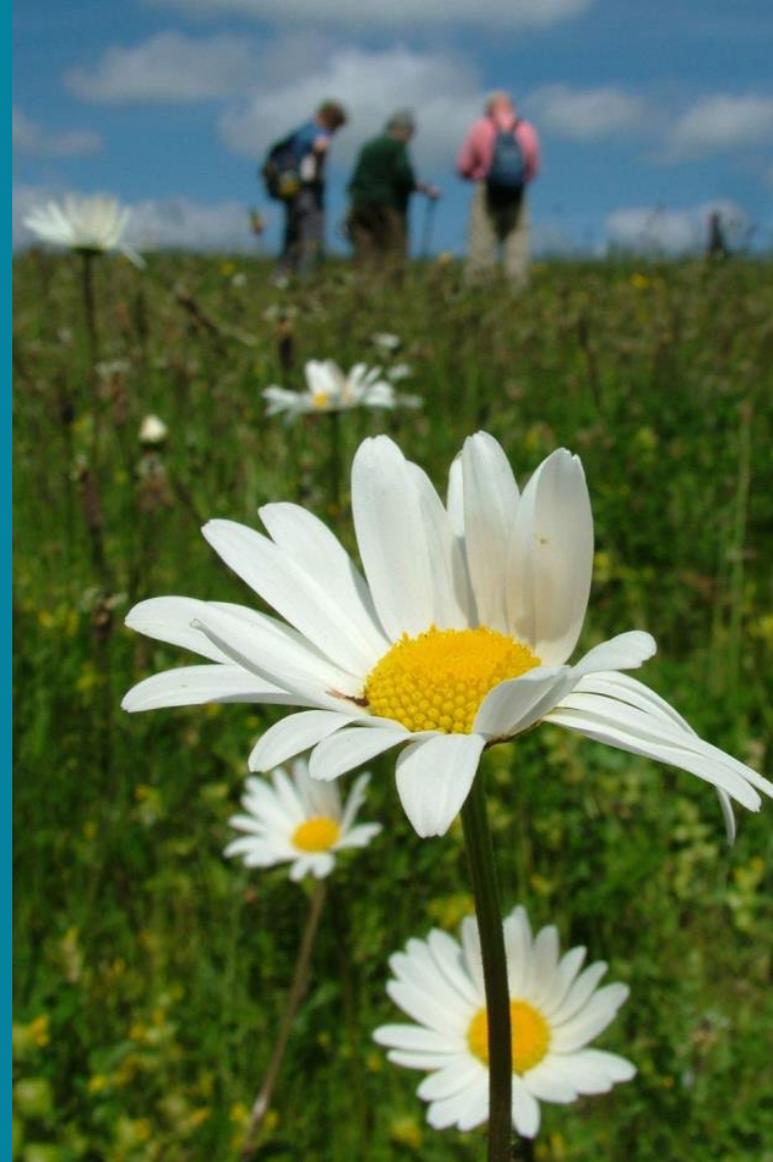
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The Wellcome Trust Genome Campus Biodiversity Strategy

Preliminary Ecological Appraisal and Baseline Biodiversity Assessment 2022

Preliminary Ecological Appraisal:

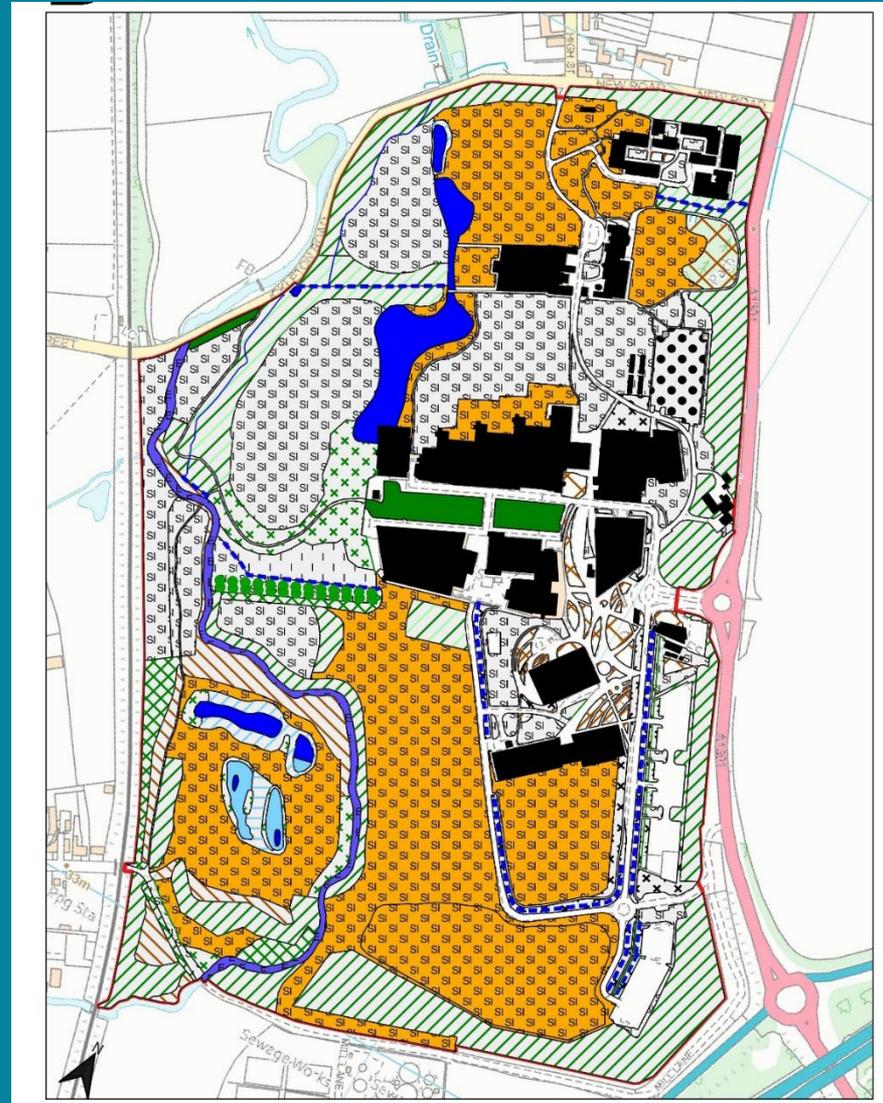
- Mapping and classification of campus habitats
- Assessment of condition of habitats and value for biodiversity
- Identifying opportunities for enhancements
- Recommending actions to increase biodiversity



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Habitat Mapping

- 18 habitats over the 52 Hectare site
- 27% SI Neutral Grassland
- 18% Poor SI Grassland
- 13% Broad-leaved Plantation Woodland
- 8% Buildings
- 2% Open Water
- 2% Ephemeral Grassland



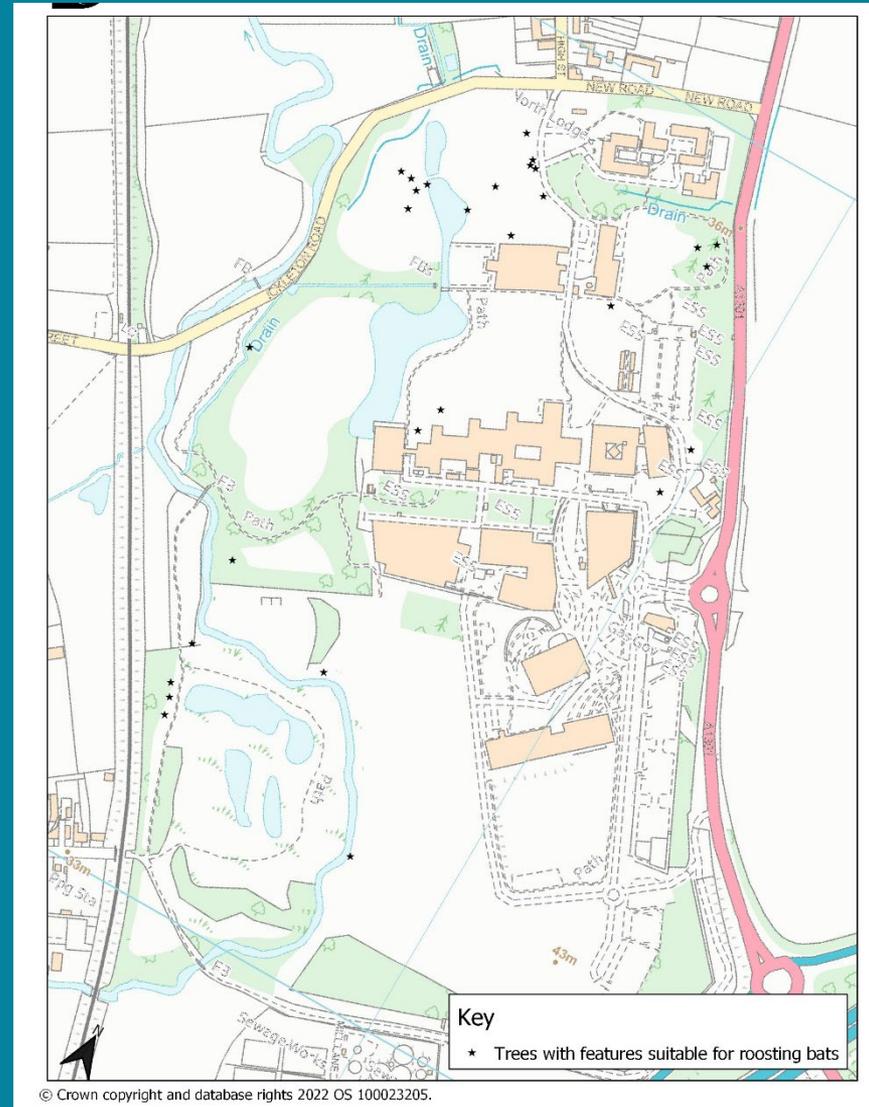
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Habitat Mapping

- Focus on habitats suitable to support protected species
- Badger – no evidence found
- Bats – known roost and foraging areas, potential roosting features



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Assessing Habitats

- Using UK Habitats Classification System and Defra Metric 3.0
- Generated a score in Habitat Units
482.31 Habitat Units
- 11.21 River Units
- 6.15 Hedgerow Units

Ref	Habitats and areas		Distinctiveness		Condition		Strategic significance			Suggested action to address habitat losses	Ecological interest	Habitat category biodiversity value					Biodiversity comparisons against less unacceptable losses	Comments		
	Broad habitat	Habitat type	Area (hectares)	Distinctiveness Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier			Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area lost		Units lost	Assessor comments	Reverser comments
1	Mires	Other Trees	0.443	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	11.13								
2	Grassland	Other swards grassland	0.610	Medium	1	Good	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	2.91		5.94	0.00	0.00	0.00	0.00	Arctic/Marginal Vegetation	
3	Mires	Wetland/lowland bog/ground	0.523	Low	2	Fair	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	1.02		1.10	0.00	0.00	0.00	0.00		
4	Woodland and forest	Other woodland/broadleaved	0.436	Medium	4	Moderate	7	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	47.35		6.436	63.61	0.00	0.00	0.00	0.00	
5	HELD	Developed/semi-developed	6.418	Very Low	0	Very Poor	0	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation not required	0.00		4.475	0.00	0.00	0.00	0.00		
6	Mires	Broadleaf scrub	0.819	Low	2	Fair	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	2.06		0.912	2.05	0.00	0.00	0.00	0.00	
7	Grassland	Townland meadows	3.33	Very High	6	Moderate	7	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	41.89		3.33	47.60	0.00	0.00	0.00	0.00	
8	Grassland	Modified grassland	0.938	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	3.03		0.938	3.35	0.00	0.00	0.00	0.00	
9	Grassland	Modified grassland	0.920	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	31.53		0.920	39.53	0.00	0.00	0.00	0.00	
10	Grassland	Modified grassland	0.430	Low	2	Fair	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	0.96		0.430	0.96	0.00	0.00	0.00	0.00	
11	Mires	Open Moors/Mires on Priority Development Land	13.706	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	235.65		13.706	233.63	0.00	0.00	0.00	0.00	
12	Grassland	Recreational pastures	0.15	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	2.11		0.15	3.12	0.00	0.00	0.00	0.00	
13	Lakes	Cumulative lake or pond	0.027	Low	2	Fair	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	1.91		0.027	1.91	0.00	0.00	0.00	0.00	
14	Grassland	Other neutral grassland	3.223	Medium	4	Moderate	7	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	36.18		3.223	38.18	0.00	0.00	0.00	0.00	
15	Grassland	Other swards grassland	1.202	Medium	4	Fair	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	3.29		1.202	5.25	0.00	0.00	0.00	0.00	Fall natural
16	Lakes	Ponds (Priority Habitat)	0.241	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	3.02		0.241	5.23	0.00	0.00	0.00	0.00	
17	Lakes	Ponds (Priority Habitat)	0.05	High	6	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	0.83		0.05	0.86	0.00	0.00	0.00	0.00	Used in north of campus
18	Lakes	Ponds (Priority Habitat)	0.11	High	6	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	2.53		0.11	2.65	0.00	0.00	0.00	0.00	Pond in north of wetland reserve
19	Lakes	Ponds (Priority Habitat)	0.080	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	0.90		0.080	0.90	0.00	0.00	0.00	0.00	Remaining two ponds in wetland reserve
20	Lakes	Ponds (Priority Habitat)	0.000	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	0.18		0.000	0.18	0.00	0.00	0.00	0.00	Pond in woodland to north-west of campus
21	Woodland	Townlands	0.20	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some habitat required	4.58		0.20	4.36	0.00	0.00	0.00	0.00	
22	Woodland and forest	Woodland scrub	0.96	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	3.06		0.96	5.98	0.00	0.00	0.00	0.00	
23	Woodland and forest	Mixed scrub	1.21	Medium	1	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Some direct habitat or higher conservation habitat required	10.91		1.21	10.31	0.00	0.00	0.00	0.00	



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How to increase biodiversity over 10 years



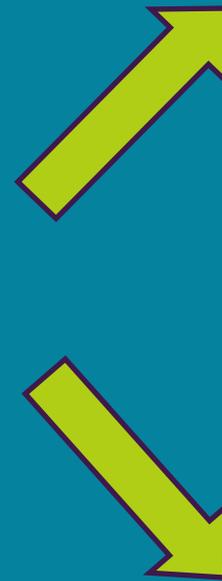
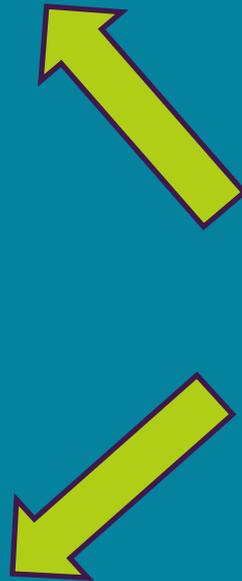
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Food

Drink

The basic needs
of wildlife



Shelter and
somewhere to breed

A mate



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Recommendations – Grasslands



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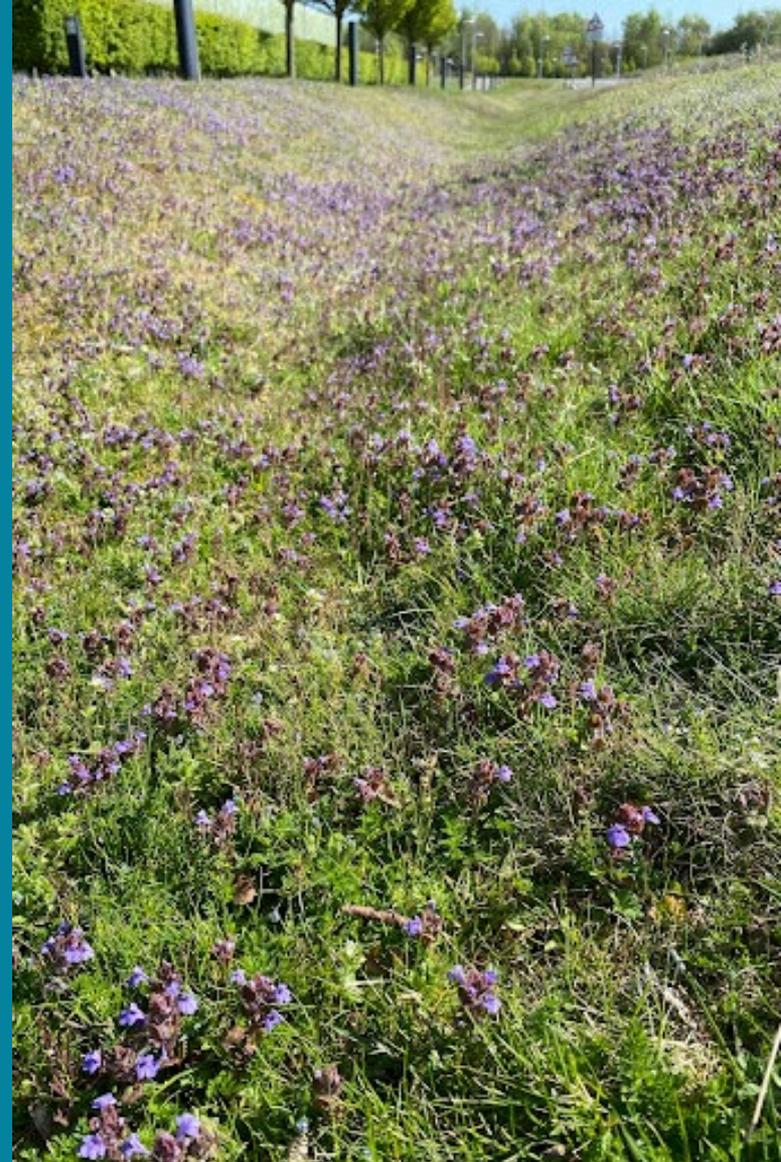
Aim to Improve...
Floral Species-diversity
Habitat Structure
Food provision



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Recommendations – Ephemeral Grasslands and Bare Ground

- Valuing early successional grassland
- Rare in landscape context
- Retaining habitat on site even if it moves location
- Planned ground disturbance
- Relocating part of the spoil heap



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Recommendations – Woodland, Scrub and Trees



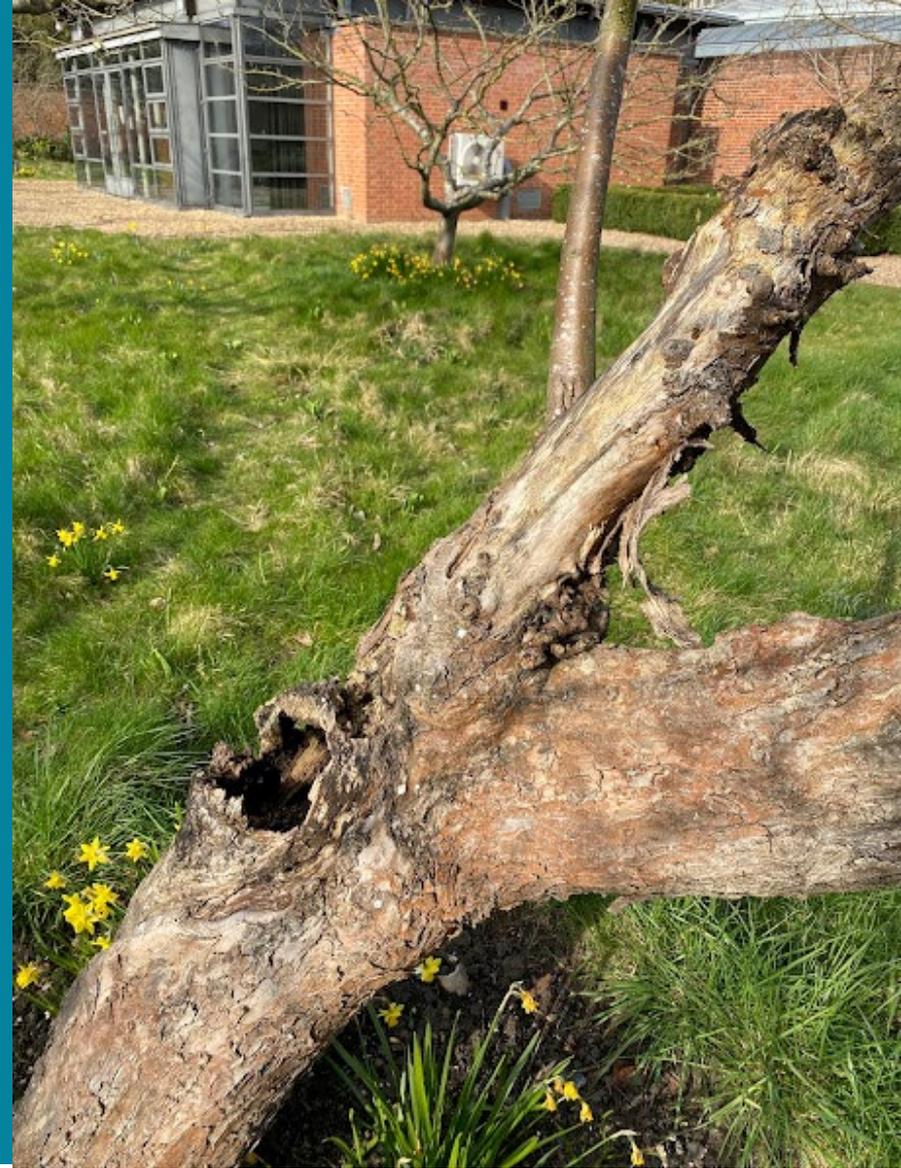
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Aim to Improve...
Tree Species-diversity
Habitat Structure



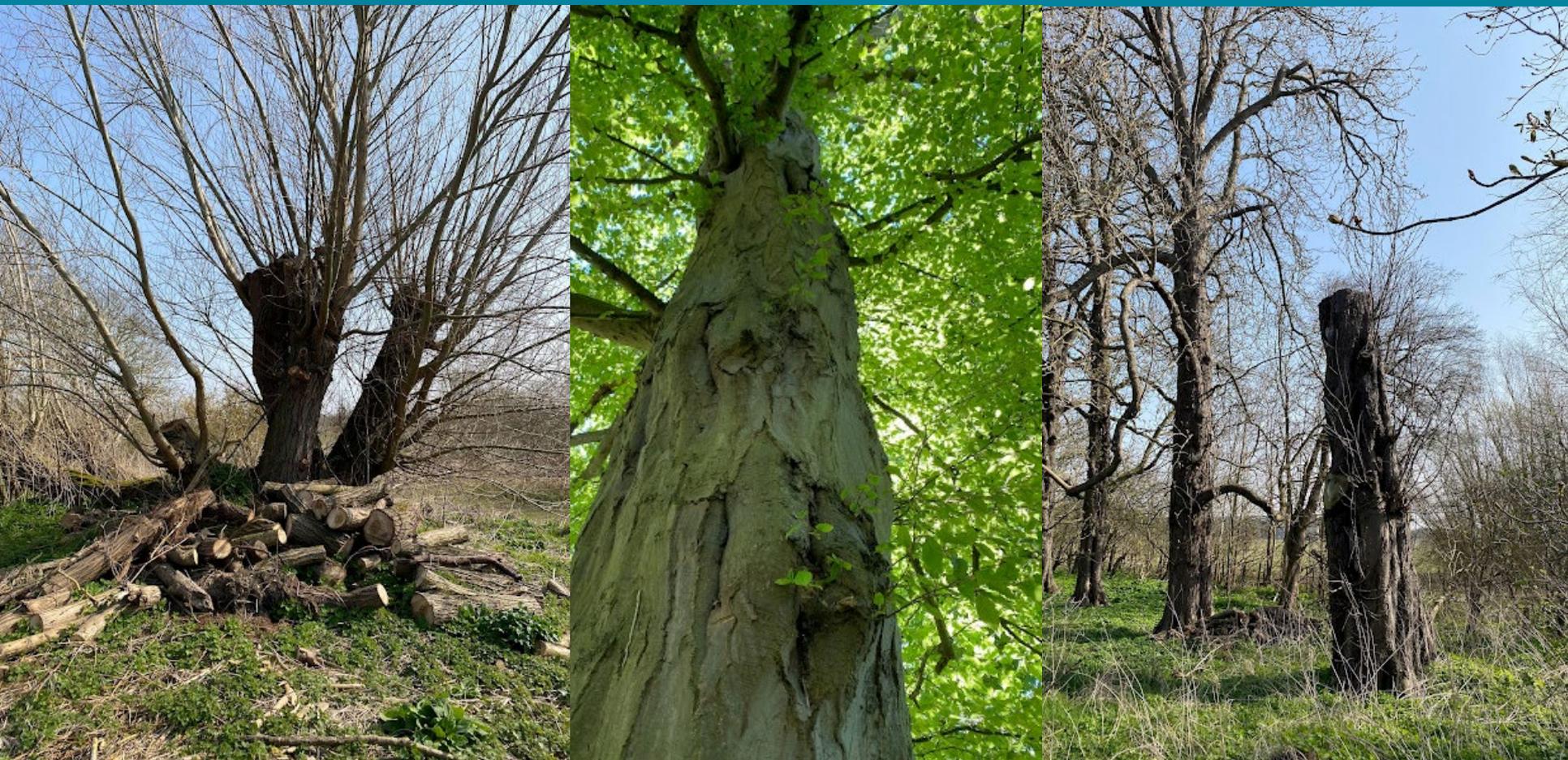
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Aim to Improve...
Longevity of a habitat
Provision of deadwood



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Aim to Improve... Potential Bat Roosting Features



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Recommendations – Aquatic Habitats



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Aim to Improve...
Habitat Structure
Predator dominance
Species Diversity



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Baseline Biodiversity Assessment:

- Measuring changes in biodiversity
- Targeted species surveys to obtain baseline data
- Developing methodology that is easily repeated



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Surveys undertaken:

- Amphibians
- Aquatic Invertebrates
- Bats
- Birds
- Pollinators



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A wide-angle photograph of a lush green field with several large trees. On the left, there are tall, dark green coniferous trees. In the center, a smaller coniferous tree stands. On the right, a large, spreading deciduous tree with bare branches is prominent. The background shows a clear blue sky with a few wispy clouds and a brick building partially visible behind the trees.

Any questions?



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