

Jointly Tackling the Climate and Nature Emergency

Bucks & MK NEP Partnership Forum

20th November 2023



Climate and Nature Emergency

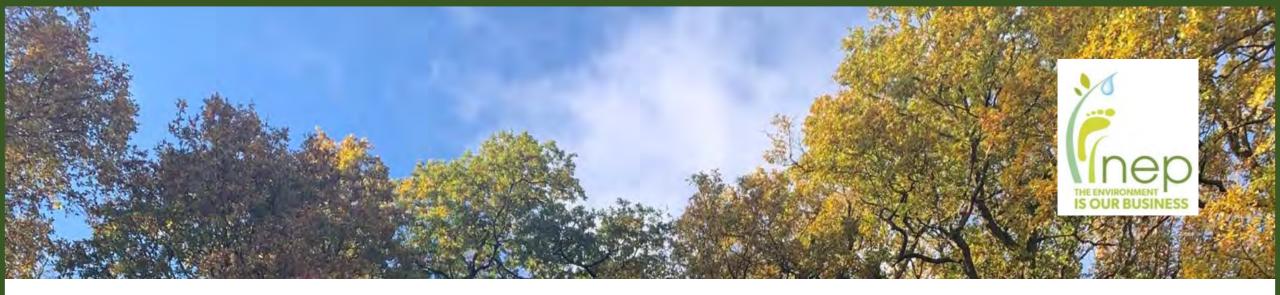
No nature, no food. No nature, no fresh water. No nature, no clean air.

No nature, no climate resilience.

No nature....no future.

Estelle Bailey, Chief Executive –
Berkshire, Buckinghamshire & Oxfordshire Wildlife Trust
<u>estellebailey@bbowt.org.uk</u>





Climate and Nature Emergency

The NEP: looking back, looking forward

Nicola Thomas Partnership Manager, Bucks & MK NEP

nicola.thomas@buckinghamshire.gov.uk

Bucks & MK NEP: Working in Partnership, landscape-scale









Collective







Strategy





* ROTHSCHILD







Voice































Working in partnership: Set Strategy

BUCKINGHAMSHIRE AND MILTON KEYNES NATURAL ENVIRONMENT PARTNERSHIP FINAL SEP 2016

Vision and Principles for the Improvement of Green Infrastructure in Buckinghamshire and Milton Keynes





Buckinghamshire and Milton Keynes: State of the Environment Report

Bucks and MK has less priority habitat than the average English

Aylesbury Vale is the most

Over 1,000 ha urban green space in over 350

each year £261m is

Only C.11% renewables (2014). Far short of national targets. Reliance on landfill gas to meet current levels (83%)

per capita in

worst of all

Inep



Buckinghamshire Pilot Draft Local Nature

Recovery Strategy

Zoe Collis - Buckinghamshire Council



More, Bigger, Better and More Joined-up across **Buckinghamshire and Milton Keynes**





The Buckinghamshire & Milton Keynes Natural Environment Partnership

Local Nature Recovery Strategy

Connecting People and *Nature?*

Nature Finance?

Working in Partnership: *Speak with one voice*Ensuring the environment is properly taken into account in decision-making

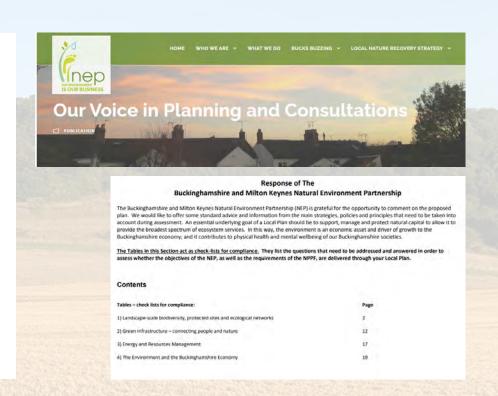
National Policy Consultation Responses

Biodiversity Net Gain proposals Local Nature Recovery Strategy 25YEP indicator framework, NPPF review, etc.

Local Plans

Commitment to BNG & the mitigation hierarchy

Next.... Environmental Net Gain?



Working in Partnership: Action

Nature Recovery
Delivery

Including

The NEP's Farmer Advisor Workshops



Connecting
People and
Nature Group
Connecting the health, nature, housing and community sectors



Facilitating Action...

Connect (e.g. Kew, GroWet)
Collaborate
Coordinate
Demonstrate and share good practice
Collective initiatives (BNG, BAP, LNRS)
Support

Partnership Working = greater than sum of the parts

Funding Nature

"Meet the funder"

webinars;

Training - writing

funding applications

Next steps – facilitating finance to nature....









Working in Partnership: Action



Supporting Partner Projects
e.g. River Chess Smarter Water
Catchment; Rivers Week; Chalk,
Cherries & Chairs







Monitoring nature:
Exploring the potential for biodiversity monitoring with our area's satellite and drone capabilities and new technologies at Westcott



Working in Partnership: Action



BMERC's <u>Local Wildlife Sites Project</u>
475 LWS in Bucks and MK. Surveys, identify sites, ongoing management advice to landowners.
Partnership working - to protect LWS and to connect and integrate them into other projects



endangered native timber tree in Britain.

Alan Holmes Memorial Project: Lindengate and Emberton Country Park – 100 trees to be planted, MK, 17th Jan 24



Reconnecting Bernwood-Otmoor-Ray: supporting development of a new farming cluster – BBOWT



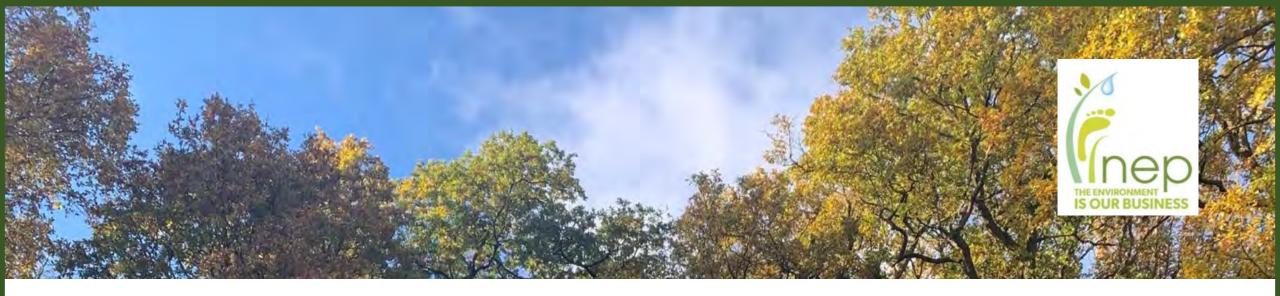
Considerations for today...

Urgency

Scale

Partnership working





Nature Recovery Working Group (NRWG) & Biodiversity Group

Charlotte Newberry, Head of Landscape Recovery, Berkshire, Buckinghamshire & Oxfordshire Wildlife Trust (BBOWT)

charlottenewberry@bbowt.org.uk

NRWG Purpose & Membership

- To realise The Bucks & MK NEP's Biodiversity Action Plan "Forward to 2030"
- Partner organisations to work collaboratively
- Over 30 individuals from 15 organisations including
 - Environmental eNGOs
 - Local Planning Authorities
 - Landowners
 - Statutory Authorities

Forward to 2030: Strategic Aim

The Forward to 2030 Biodiversity Action Plan aims to reverse biodiversity decline by working together to create more, bigger, better and more joined-up habitats across Buckinghamshire and Milton Keynes by 2030

Forward to 2030:

Biodiversity Action Plan

More, Bigger, Better and More Joined-up across Buckinghamshire and Milton Keynes





The Buckinghamshire & Milton Keynes Natural Environment Partnership

Farmer Advisor Workshops

- 3 Workshops with a total of 48 participants
- Topics we have covered
 - The BAP and how we can work together
 - Local Nature Recovery Strategy
 - Biodiversity Net Gain
- Also had case studies on projects funded via HLF,
 Landscape Recovery and EA
- Acknowledge and assist with blockers to positive land management
- 6 Monthly good feedback



What have we achieved & what next?

Biodiversity Group Funding

- 5 Farmer cluster 'pie and pint' nights
- Gro Wet preparing for Bucks expansion
- Rivers Week design templates for catchments

Monitoring

 Successful Natural England Seedcorn application to look at one potential method of monitoring impacts of the Local Nature Recovery Strategy

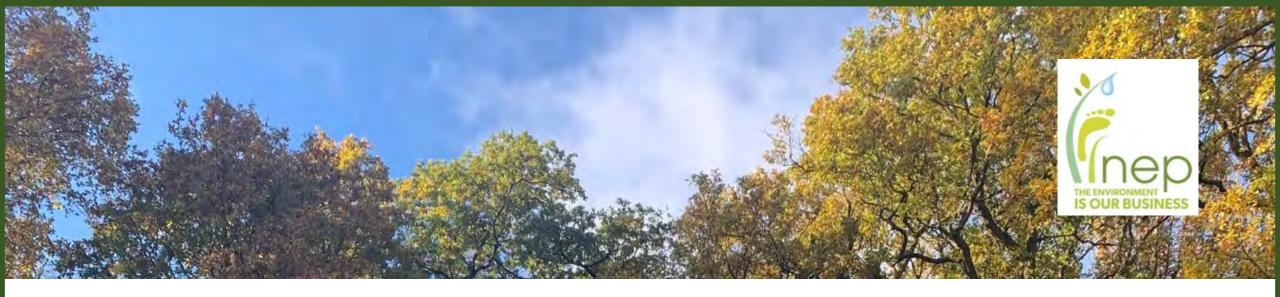
Partnership working

- LNRS document for farmers
- Fostering links between organisations

What next?

- Continue working with landowners/ farmers more joint bids?
- New topic community?





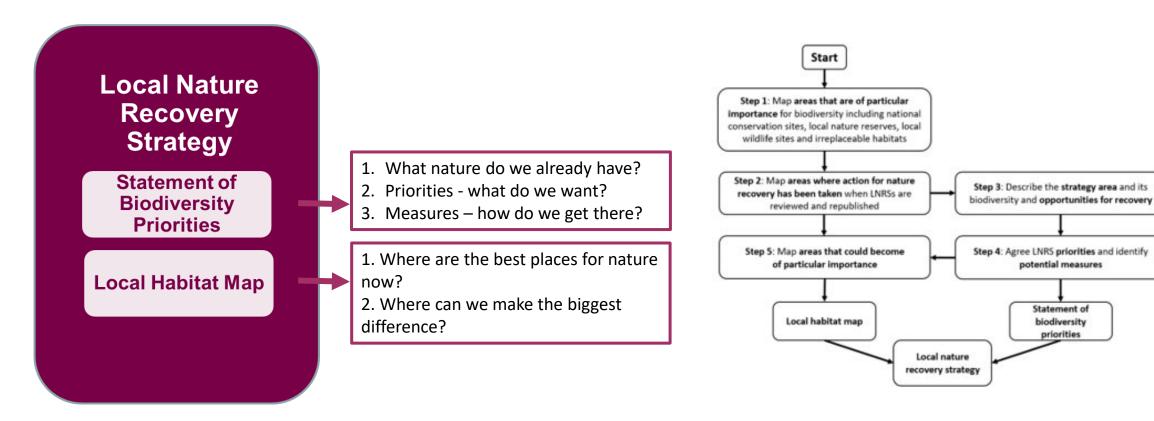
Local Nature Recovery Strategy Buckinghamshire & Milton Keynes

Sachi Shah, LNRS Project Manager, NEP

sachi.shah@buckinghamshire.gov.uk

What is the LNRS?

England-wide government initiative to develop plans that identify which natural spaces need to be improved and which ones we should focus on to provide us with the most benefits, including health & wellbeing and climate change adaptation benefits, among others.



Where are we now?



Our Process

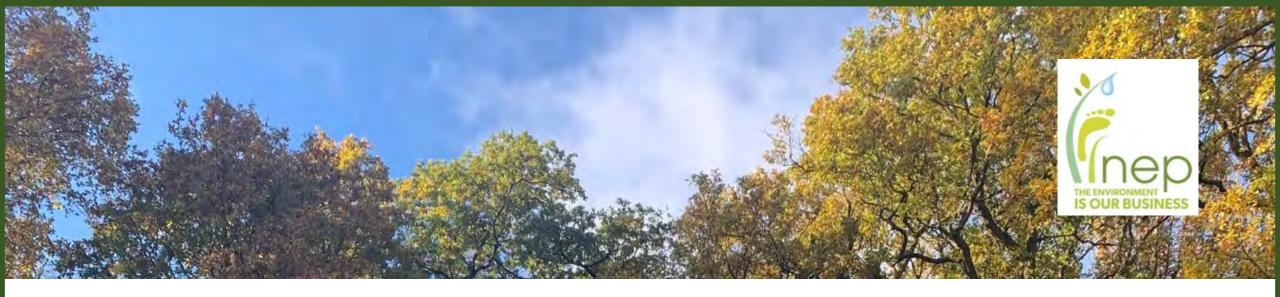
- Use pre-existing work and map updated landscape scale possibilities
- Consult extensively with people, communities and organisations
- Coordinate with neighbouring areas
- Distil strategic priorities
- Map areas and sites for nature recovery
- Present the LNRS in a user-friendly and useful format

How can you get involved?

Co-ordination and collaboration is key! We want to enable your vision for nature!

- 1. Sign up to stay updated and learn about the LNRS delivery mechanisms and funding opportunities
- 2. Join a stakeholder consultation group March & June 2024
- 3. Answer our public survey next year in July 2024
- 4. Suggest land for delivery (upcoming)
- 5. Tell us about your work and share your data with us!



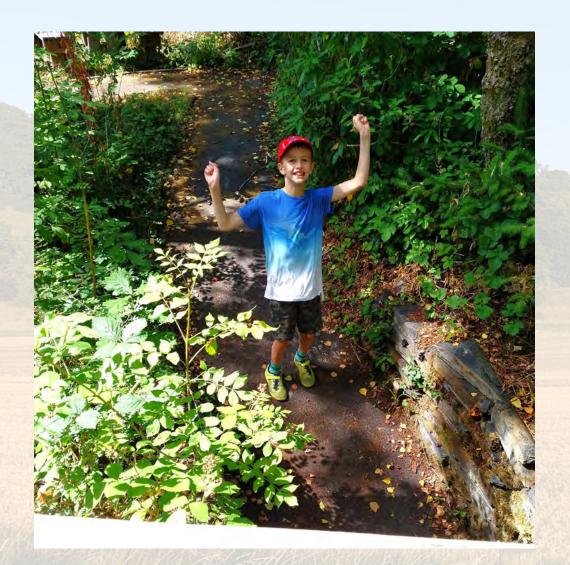


People and Nature Group Buckinghamshire & Milton Keynes

John Shaw, Chiltern Rangers

john@chilternrangers.co.uk

Working together: People and Nature

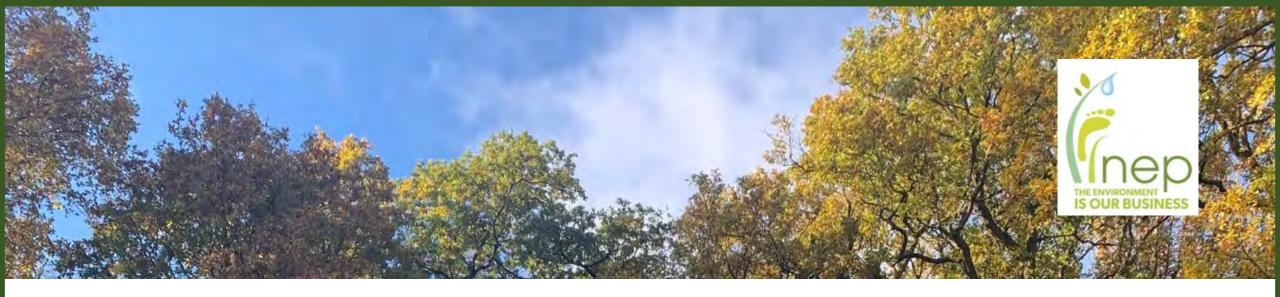




Connecting People and Nature

Health, Nature, Housing and Community organisations

- Urban Nature
- Green Social Prescribing
- Volunteering



Buckinghamshire Council BNG, Climate Strategy and tree planting

David Sutherland and Alex Beckett



Biodiversity Net Gain - What is Buckinghamshire doing to prepare?





BNG -How

ON-SITE (UNITS)



Delivered through habitat creation/enhancement via landscaping/green infrastructure OFF-SITE (UNITS)



Delivered off-site through
habitat
creation/enhancement,
including via habitat banks,
with public and private
landowners

STATUTORY CREDITSoption of last resort



Delivered through largescale habitat projects delivering high value habitats which can also provide long-term <u>nature-</u> <u>based solutions</u>

When?

- Mandatory BNG requirement starts in Jan 2024
- 'Small Sites' BNG mandatory requirement start in April 2024

- Nationally Significant Infrastructure Projects BNG required by November 2025
- Still lots of detail to come in secondary legislation and guidance at end of Nov

Development Management Preparations

- Supporting mechanisms, guidance and templates produced
 - Supplementary Planning Document
 - Legal agreement templates for planning applicants, offset sites and habitat bank providers
 - Strategic Significance guidance for use with BNG metric
 - Draft BNG text and condition wording for use by ecologists to send to planners
 - Financial calculator to work out detailed cost of local habitat creation and maintenance over 30 yr period

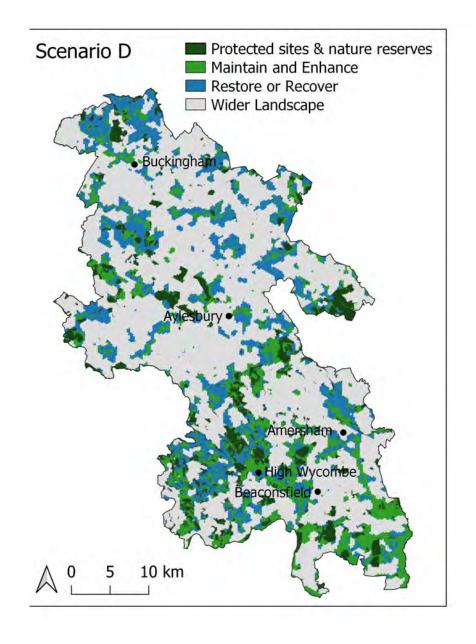


Resource 1.6FTE BNG officers

Ensuring a strategic approach

- BNG needs assessment commissioned taking account of development allocations in local plan and national infrastructure projects
- Pilot LNRS looking at spatial location for creation of habitat.

 Commissioning a review of own landholdings and surveying of shortlisted sites to understand opportunities for BNG



Offsite BNG - New regulatory role for Buckinghamshire Council

- Getting local offsite BNG market up and running by Jan 24 so developers have local options to buy local BNG units and not resort to purchase of National Credits
- Legal agreements with habitat bank providers
 - Local Habitat Bank Criteria guidance on what information is required prior to entering a legal
- Two large sites very close to signed legal agreements landscape scale conservation in line with LNRS
- Schedule of fees for our role in BNG
 - Monitoring
- Review of technical info in relation to habitat banks

 BUCKINGHAMSHIRE COUNCIL

 BUCKINGHAMSHIRE COUNCIL



Credit: BMERC

Where can the Partnership help?

- Sharing of expertise in relation to offsite BNG in terms of delivery, finance?
- Partnerships to bring forward and deliver strategic offsite BNG sites in line with LNRS priorities?
- Monitoring in support of LNRS



Nature Based Solutions to Climate Change

20/11/2023
NEP Event 'Jointly Tackling the Climate and Nature Crises'

Alexander Beckett
Climate Change Programme & Partnership Manager
Buckinghamshire Council



Contents

- 1. Defining Nature Based Solutions to Climate Change
- 2. Environmental Impacts from Air Pollutants
- 3. Tree Planting
- 4. Ecosystem Services
- 5. Woodland Carbon Code
- 6. Working in partnership

1. Defining NbS to Climate Change

Nature-based solutions (NbS) to climate change, sometimes called "natural climate solutions," involve **conserving**, **restoring**, **or better managing ecosystems** to:

- remove carbon dioxide (CO2) from the atmosphere
- reduce emissions of greenhouse gases, and
- assist with the adaptation to a changing climate

'Research highlights that **NbS could provide around 30% of the cost-effective** mitigation needed by 2030 to stabilise warming to below 2°C. They can also provide a powerful defence against the impacts and long-term hazards of climate change, which is the biggest threat to biodiversity.'

International Union for the Conservation of Nature (IUCN), Global Standard for Nature-based Solutions

Improving ecosystem health includes all activities that reduce negative and improve positive impacts......

2. Environmental Impacts from Air Pollutants

Acidic (e.g. oxides of nitrogen and sulphur dioxide) air pollutants or those that are powerful oxidizing agents (e.g. tropospheric ozone) corrode organic and inorganic material.

Specific pollutant objectives have been set for the protection of vegetation and ecosystems

Pollutant	Applies	Objective	Concentration measured as	Date to be achieved by and maintained thereafter	European obligations	Date to be achieved by and maintained thereafter	New or existing
National air quali	ty objectives a	nd European Directive limit ar	d target values for th	e protection of vegetation	and ecosystems		
Nitrogen oxides	UK	30µg.m ⁻³	annual mean	31 December 2000	30µg.m ⁻³	19 July 2001	Retain existing in accordance with 1st Daughter Directive
Sulphur dioxide	UK	20µg.m ⁻³	annual mean	31 December 2000	20µg.m ⁻³	19 July 2001	Retain existing in accordance with 1st Daughter Directive
	UK	20µg.m ⁻³	winter average	31 December 2000	20μg.m ⁻³	19 July 2001	
Ozone: protection of vegetation & ecosystems	UK	Target value of 18,000µg m ⁻³ based on AOT40 to be calculated from 1 hour values from May to July, and to be achieved, so far as possible, by 2010	Average over 5 years	1 January 2010	Target value of 18,000µg m ⁻³ based on AOT40 to be calculated from 1 hour values from May to July, and to be achieved, so far as possible, by 2010	1 January 2010	New EU target

Initiatives such as the Energy Doctor scheme, GHGLAD, HUG, electrifying a refuse collection vehicle, and transitioning to active travel modes not only helps BUCKINGHAMSHIRE CC decarbonise Buckinghamshire but also improves local air quality thereby helping protect plants and animals.

3. Tree Planting

England Tree Action Plan 2021-2024 sets out a target of 30,000ha woodland being planted per annum.

In 2021, the Council

- committed to planting 543,000 trees on Council land by 2032
- launched the Bucks' Tree Mission in 2021 a shared mission encouraging everyone to plant trees for a greener future.

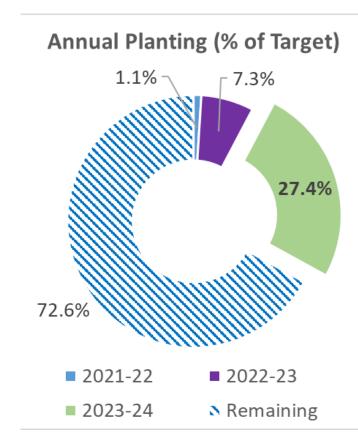
Considerations when planting trees

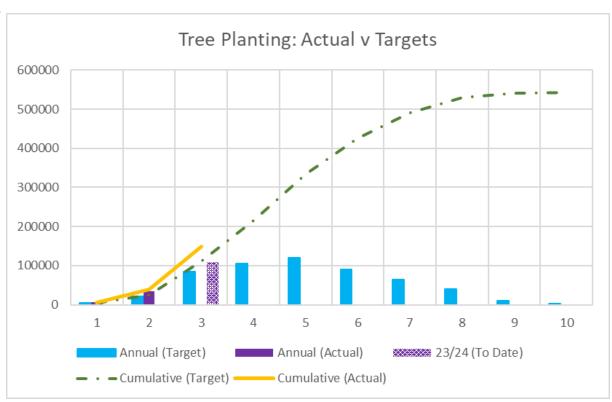
- 1. Soil type and suitability
- 2. Proximity of natural water features
- 3. Biodiversity and ecology of the area proposed for planting (e.g. chalk grassland?; local tree species)
- 4. Landscape
- 5. Historic environment (e.g. statutory designations)
- 6. Presence of utility services
- BUCKINGHAMSHIRE CC 7. Climate (e.g. rainfall, wind)

- 8. Protection against weeds and pests (e.g. mulch matts, and rabbit netting)
- 9. Stakeholder access
- 10. Maintenance, security, and safety
- 11. Property ownership, rights and covenants
- 12. Biosecurity
- 13. Purpose (e.g. for fruit; roadside tree)
- 14. Conformance (e.g. UK Forestry Standard)
- 15. Cost

3. Tree Planting

Council Land Tree Planting Programme: Rate of planting to date





35.8% of the 543,000 target met

3. Tree Planting

Funding Awarded to the Council to Date

Funding	Amount (£)	Site
England Woodland Creation Offer (EWCO)	28,380	Billet Field
EWCO	105,693	Bury Farm
EWCO	110,186	Grange Farm
EPREC	1,765	Billet Field
Local Authority Treescapes Fund (LATF) 21/22	203,000	Various
LATF 22/23	184,000	Various
Total	633,024	

We have secured over £633,000 in funding to support tree planting in Bucks

INFO:

We have also received £144,000 of capacity funding from the Woodland Creation Accelerator Fund

3. Tree Planting -'22/'23

Local Authority Treescapes Fund

- Supports tree planting and maintenance (3 years) in stands of ≤0.5ha
- Upper tier local authority led with a primary focus on community projects



Dorneywood Scout Camp were awarded just over £1,600

- 686 whips and 22 feathers were planted
- Volunteers contributed 125 volunteer hours to plant the trees



Releaf Marlow planted 62 whips, 39 feathers and 14 standards across four locations including:

- Two planting sites on farmland near Marlow
- Spade Oak Nature Reserve, Little Marlow
- Harleyford Golf Course, Marlow

3. Tree Planting -'22/'23

Local Authority Treescapes Fund

- Miyawaki "Tiny" Forests
 - ~30,000 stems per ha
 - large amount of ground preparation
 - claims that they can grow ten times faster than other newly planted woodland

600 trees planted at Princes Risborough School

- 150 students aged 4 to 16 involved
- Attended by the Lord Lieutenant
- Part of the Queen's Green Canopy

600 trees planted at Bourton Park (Buckingham), supported by:

- Buckingham Parish Council and Earthwatch
- 65 Volunteers from the local community
- Part of the Queen's Green Canopy





3. Tree Planting – '22/'23

Contractor Planting

Bury Farm (Amersham)

- 7.15 ha
- 14,300 trees
- 1,900 tCO2eq predicted to be sequestered over the coming century

Grange Farm (Hazlemere)

- 7.44 ha
- 14,700 trees
- 1,900 tCO2eq predicted to be sequestered over the coming century



3. Tree Planting – '22/'23

Forestry England Woodland Partnership Scheme

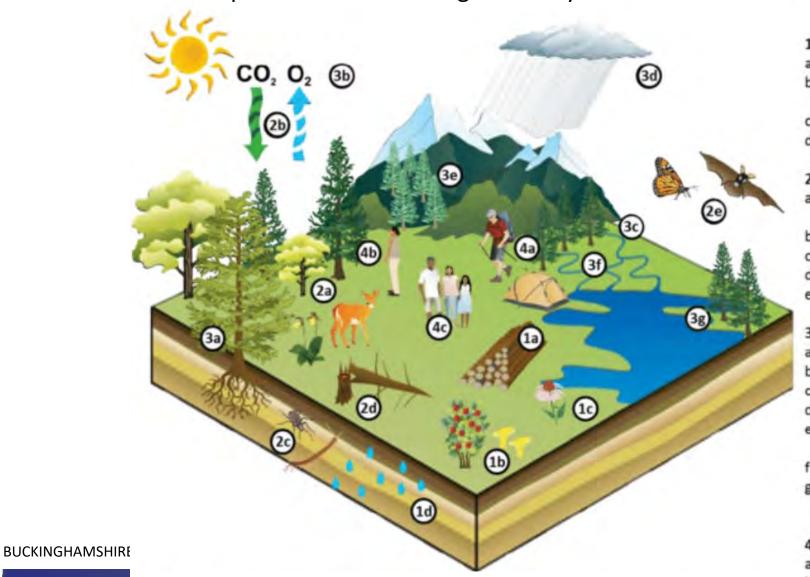
A new 51Ha woodland is being created near Wing:

- Under the Forestry England Woodland Partnership Scheme, the Council have leased 51Ha to FE for 100 years
- By 23/24, 132,000 trees will be planted at the site
- Public consultation undertaken in 2022 <u>Public Consultation Response</u>
- Ongoing work with local community and Members to progress connection to Long Spinney Woodland
- Over 109,000 trees already in the ground



4. Ecosystem Services

Trees provide a diverse range of ecosystem services



1. Provisioning Services

- a. Timber/Fibre (construction, energy)
- Food (deer, fruits, herbs, seeds, honey)
- c. Chemical and medicinal products
- d. Water

2. Supporting Services

- Habitats for fauna and flora (biodiversity)
- b. Photosynthesis/Primary production
- c. Soil formation
- d. Nutrient cycling
- e. Pollination, seed dispersal

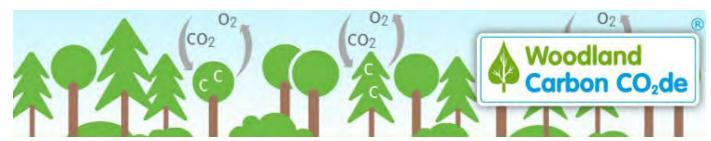
3. Regulating Services

- a. Carbon storage (above/below ground)
- b. Purification of air
- c. Purification of water
- d. Climate regulation
- e. Protection against erosion/ avalanches
- f. Flood mitigation
- g. Protection against coastal erosion and storms

4. Cultural Services

- a. Recreation/Aesthetics
- b. Spirituality
- c. Education

5. Woodland Carbon Code



- Backed by the UK Government
- For UK Forestry Standard compliant 5ha woodland creation projects where there is the desire to generate verified woodland carbon units (and used for offset purposes: 1 WCU = 1 tonne of CO2 sequestered)
- Projects must be registered to the Land Carbon Registry (currently operated by IHS Markit Register)
- An accredited body needs to validate the project within three years
- Ongoing verification needs to happen by an accredited body up to 100 years (from year 5 then every 10 years)
- Pending Issuance Units ('the promise of carbon sequestered') are issued initially at 3p per unit and then converted to Woodland Carbon Units at each verification milestone
- WCUs currently being traded up to £25 per WCU

6. Working in Partnership

General thoughts.....

- 1. Could local organisations deliver tree planting work required under the contractor-based planting model?
- 2. Delivering the numbers of planted trees under the Council's programme and nationally invites consideration of establishing a tree nursery..... who could run this?
- 3. Is there interest from partners in managing new woodland sites?
- 4. What's required to ensure that products from the new woodlands benefit local stakeholders?
- 5. What information about the Council's tree planting programme would be of benefit to partners developing their own schemes etc?



Farm Carbon Impacts

Kate Heppell, Head of Landscape



Understanding GHG emissions from farm activities

Preventing soil erosion and off-site sediment transport

Improving onsite carbon storage in soils









GHG emissions from farm activities

Farm carbon assessment using calculator:

CO₂: fuel energy use, creation of fertiliser

N₂O: crop residues, fertiliser use

CH₄: livestock production, manure storage

Provides baseline

Assess areas of high emissions to help consider efficiency measures:

- fuel efficiency to reduce carbon dioxide (direct drilling)
- fertiliser efficiency to reduce nitrous oxide
- alter manure management practices





Improving SOC & SOM content

For farmers:

- Baseline soil organic matter & carbon content
- Learn how practice impacts on soil health
- Trial methods to improve SOM (cover crops)

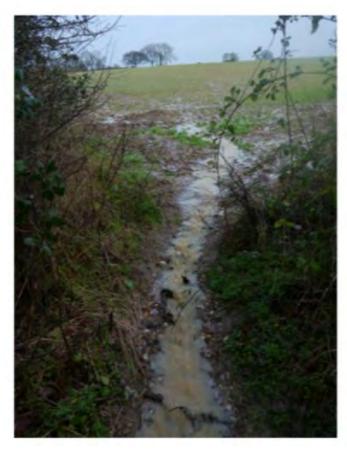
For our organisation:

- Identify where carbon and nature priorities align
- Provide evidence for climate action plan
- Inform nature recovery plans

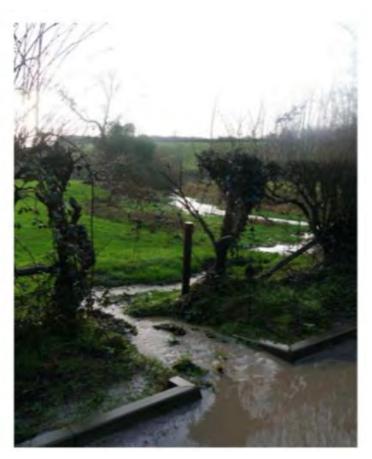




Off-site transport of soil containing carbon









Issues associated with fine sediment in chalk streams

- Fine sediment infills gravels and prevents exchange of ground and surface water
- A coating of fine sediment smothers the riverbed, preventing fish from finding suitable areas to lay eggs, and aquatic plants from taking root
- Fine sediment carries pollutants such as metals and hydrocarbons from urban runoff
- Fine sediment lowers oxygen levels in the spaces between gravels preventing fish eggs from developing
- Creates enhanced habitat for methane production





SOURCE: River Chess Association

Issues associated with fine sediment in chalk streams

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Freshwater Biology (2007) 52, 1176-1186

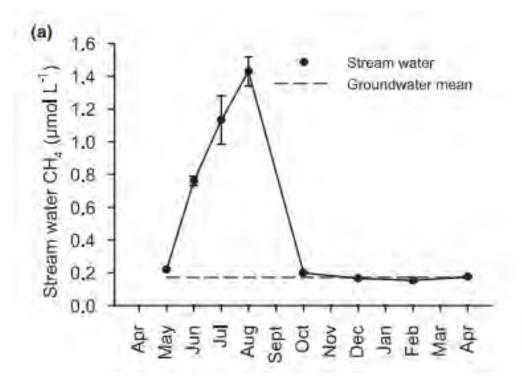
doi:10.1111/j.1365-2427.2007.01745.x

APPLIED ISSUES

Emission of methane from chalk streams has potential implications for agricultural practices

I. A. SANDERS,* C. M. HEPPELL,[†] J. A. COTTON,[†] G. WHARTON,[†] A. G. HILDREW,* E. J. FLOWERS* AND M. TRIMMER*

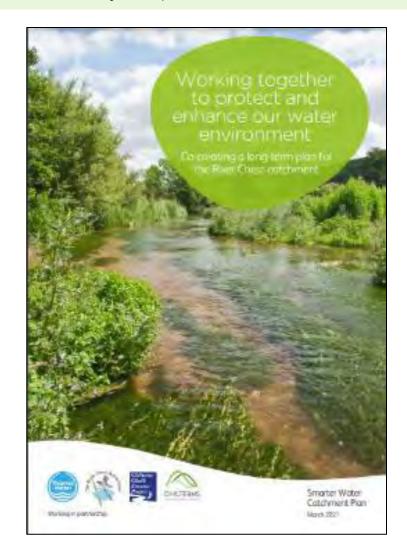
[†]Department of Geography, Queen Mary, University of London, U.K.



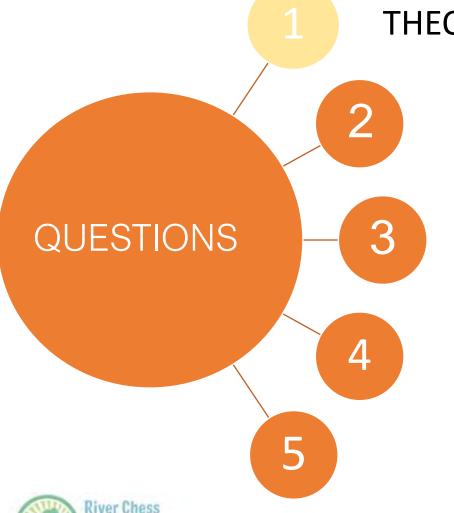
^{*}School of Biological and Chemical Sciences, Queen Mary, University of London, U.K.

Chess Smarter Water Catchment programme

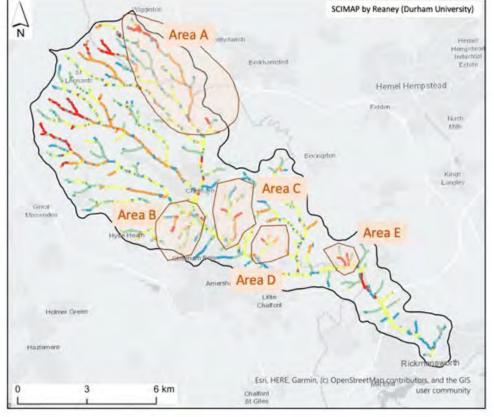
The partners — led by Chilterns Conservation Board and River Chess Association - have co-created a shared 10-year plan which aims to restore the health of the River Chess







Smarter Water Catchment



Used SCIMAP developed by Durham University



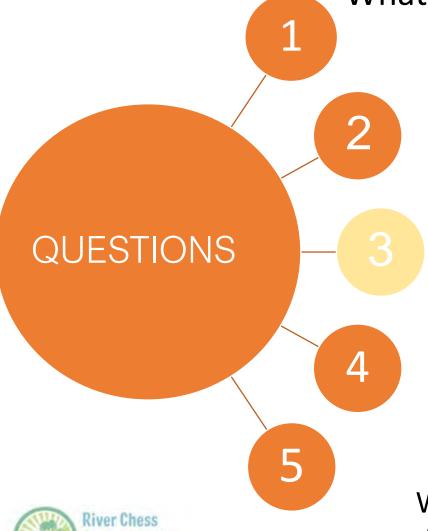


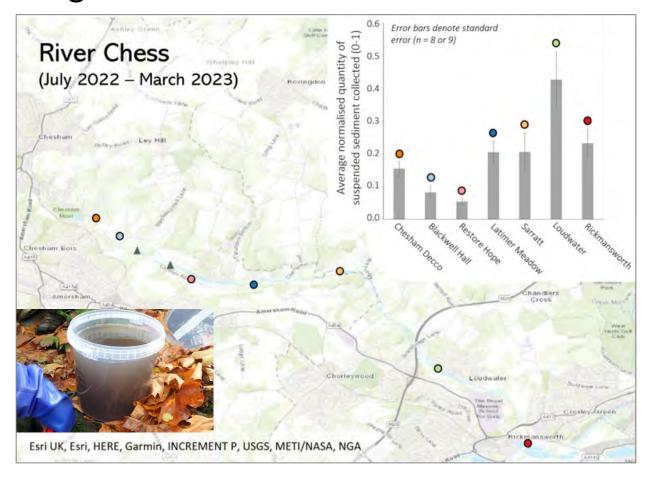
Developed and trialling Walkover Survey to work with farmers on potential mitigation actions e.g. use of cover crops

Where do we observe fine sediment transport? Chesham **QUESTIONS** Working with local rivers groups and citizen scientists to

observe fine sediment transport on roads and in the river

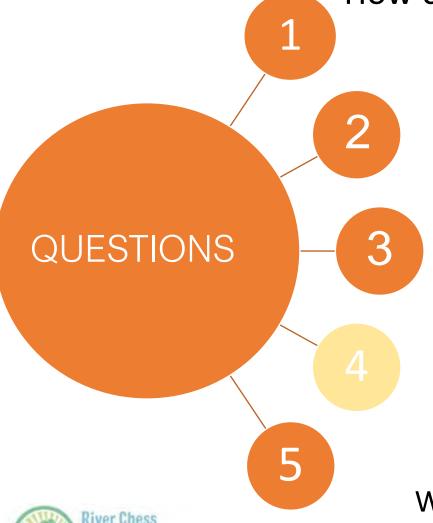
What is the greatest source of fine sediment to the river?





Worked with scientific community and agricultural advisors to determine critical sources of sediment in the river

How can we prevent fine sediment from entering the river?



Smarter Water





Working up and implementing solutions to prevent sediment input to the river in partnership with farming community and local authority

QUESTIONS

How can we flush fine sediment from the riverbed?



Working up and delivering river restoration projects that narrow an over-widened river channel encouraging a diversity of flows



Scoping the opportunity for unlocking nature recovery in Buckinghamshire

Defra Test & Trial Project

Project number 378A Led by Pilio



The Project Aims

The aim of this project is to explore whether the existing networks in Buckinghamshire can be aligned and supported to incentivise and deliver sustainable land management projects.

We will focus on:

What organizations, delivery partners, farming networks, and investors are in the network within Buckinghamshire who can deliver these projects.

How this can be organized around local and governmental priorities.

What is the role of the government in helping mobilize this network

Project Partners

This project is being led by Pilio, an environmental innovation company out of Oxford University, developing products, services, and business models for achieving net zero and nature positive outcomes.

Our steering group includes:

- Buckinghamshire Council (LNRS & NEP)
- Chilterns Conservation Board
- Emerald Network
- Joint Nature Conservation Committee
- River Thame Conservation Trust
- Chair: Garth Clark (Trustee at BBOWT)

















The Opportunity

We are looking to engage with various stakeholders in Buckinghamshire to shape and inform our project and findings for Defra policy makers.

This includes:

- Farmers/landowners
- Businesses
- Government bodies
- Local initiatives and groups
- Local delivery partners
- Anyone else relevant working in Buckinghamshire

If you would like to be involved, please reach out to phoebe@piliogroup.com





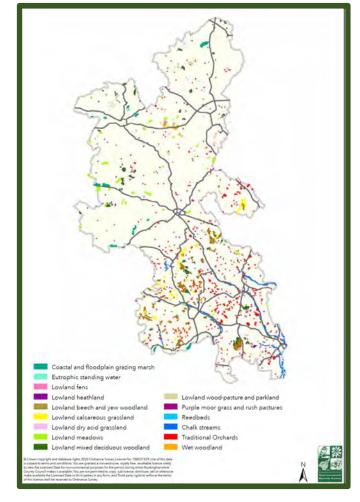


- UK government committed to protect 30% of land for nature by 2030 ('30-by-30').
- Recognises it's not good enough to offset only future losses in nature – we need to restore historical losses too (principle of 'net gain').
- Buckinghamshire & Milton Keynes' Biodiversity Action
 Plan
 - Seeks '<u>doubling of nature [i.e. doubling of land for nature]</u>' by 2030
 - Works from 'Lawton Principles' Bigger, Better, More Joined-Up



- Currently, 13% (20,000 hectares) of Bucks is seminatural habitat (e.g. neutral grassland)
- 5.5% has designated status and 3% is high-quality 'priority habitat' (e.g. calcareous grassland)
- Meanwhile, 63% of the land area of the county is in agricultural use for arable or pasture.





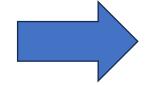
Source: 'Forward to 2030' Bucks & MK Biodiversity Action Plan





How do we effect a proportionate strategic shift in land use?

Arable & Pasture



Semi-natural / priority habitat

Land purchase may be part of the picture, but bulk will need to come from existing land-owners changing land use ... and how Local Nature Partnerships work to incentivise / support that change.

Caveats:

- This isn't about wholesale 'wilding' of high-quality agricultural land. Most of this can be achieved on marginal farmland, where the loss to food production will be minimised.
- In many cases, land put into nature recovery can still be farmed (e.g. low intensity pasture).





- Policy applied to new developments, designed to leave biodiversity in a <u>measurably</u> better state than before
- Key plank of the <u>Environment Act</u> (2021), makes 110% biodiversity offset mandatory for most development (some exceptions)
- Specialised 'metric' used to calculate habitat loss/gain, measured in 'biodiversity units'.
- 'Polluter pays' the developer is responsible, either for creating habitat on a development site ('on-site') or for purchasing units to deliver offset on another site ('off-site').
- Offsets must be maintained for minimum of 30 years





 Applied correctly, BNG can be a way to support a shift in agricultural land use, putting land into long-term management for nature.



- TOE's experience shows that BNG can be a viable way for landowners to manage their land for nature, as a part of farm business diversification.
- So far, we have delivered 7 projects with BNG funding, creating approx. 100 hectares of high-quality habitat.





- <u>Bellwethers:</u> This is a very new income stream and there are risks. We need to identify, support and champion 'early adopter' landowners.
- KISS: Local gov should keep administration as light as possible, while guarding against a 'race to the bottom'.
- Enabling capital: Recognise that this is an emerging market which requires capital - consider developing financing mechanisms?
- Recognise the skills-gap: Bucks is well placed, through LNP, BAP and having invested in council capacity to manage and guide BNG.
- <u>Nurture partnerships:</u> Nature recovery is complex and requires multisector partnerships. Invest time (money?) in developing these.

The New Local Plan

Phillip Snell MKCC Local Plan Studies 15/11/2023





The New City Plan will take forward Milton Keynes City Council's Strategy for 2050 which set out a bold and ambitious vision for MK over the next 28 years.

In preparation several studies are being undertaken across multiple departments

Evidence base

Integrated Water Landscape Character Open Space Accessibility Study Management Study Assessment Assessment Habitats Regulation **Equality Impact** Health Impact Transport Modelling Assessment Assessment Assessment Carbon and Climate Mass Rapid Transit Design Code and MK Infrastructure Density Study Guidance (MRT) Study Study and Strategy Retail Capacity and Land Availability Leisure Study Assessment (LAA)

Ecosystem services and NGBI

Review of ecosystems services and benefits provided by various NGBI assets

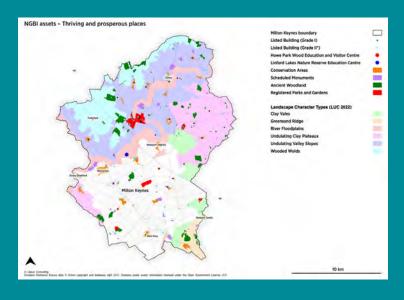
Ecosystem disservices

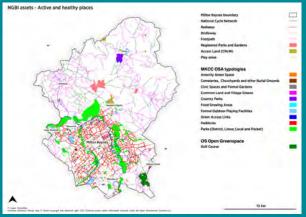
Review of five benefit principles (NE) in the context of MK

Table 9.2. Notification and ecosystem services																		
NGBI Typology	NGBI Asset	Timber, hay and other materials	Fish and other marine products from wild sources	Plant-based energy	Cultivated crops	Water supply	Livestock	Water quality	Air quality	Noise regulation	Erosion control	Flood protection	Pollination	Biodiversity – thriving plants and wildlife	Climate regulation	Cultural services	Geodiversity services	Total
Parks and gardens	Country parks							1	1	1		1	1	1	1	1		8
	District parks									1		1		1	1	1		8
	Linear parks									1		1		1	1	1		8
	Local parks									1		1		1	1	1		8
	Pocket parks									1		1		1	1	1		5
	Private domestic gardens									1		1		1	1	1		5
	Formal gardens									1				1	1	1		4
Amenity greenspace	Common land (RCL)									1				1	1	1		4
	Village greens									1				1	1	1		4
	Children's natural play space									1				1	1	1		4
	Paddocks						1									1		2
Natural and semi-natural greenspaces	Broadleaved woodlands	1		1		1		1	1			1		1	1	1		9
	Coniferous woodlands	1		1		1		1	1			1			1	1		8
	Mixed woodlands	1		1		1		1	1			1		1	1	1		9
	Grasslands	1				1	1	1				1	1	1	1	1		9
	Hedgerows								1	1				1	1	1		5

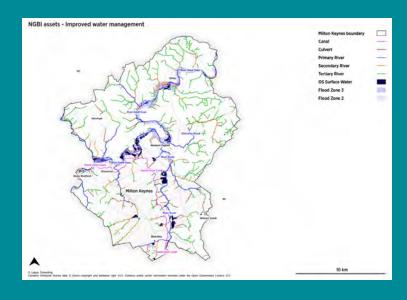
Table 5.2: NGBI assets and ecosystem services

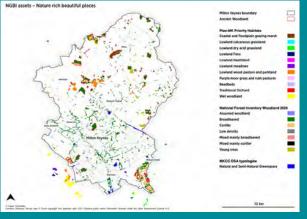
NGB

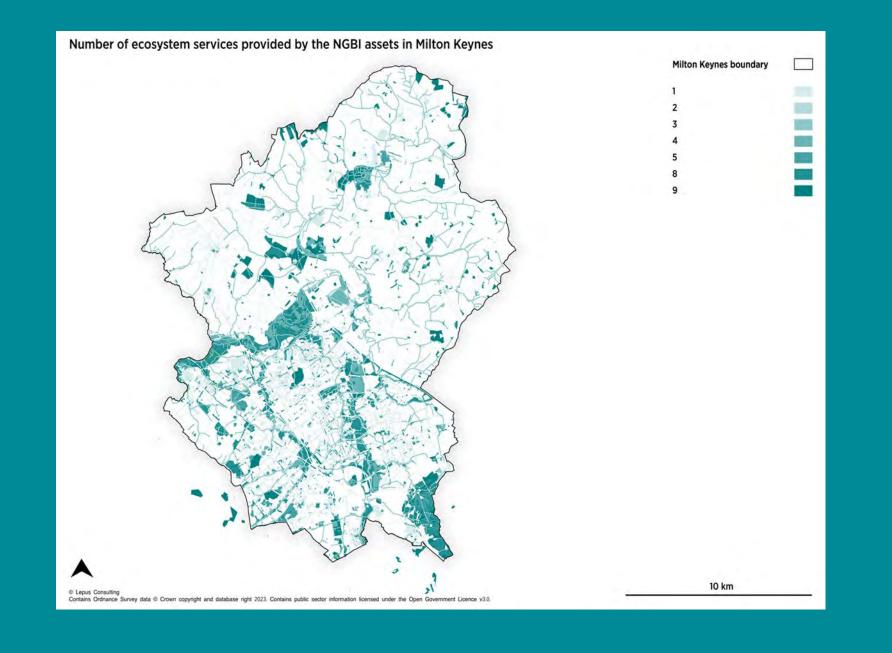












Delivering the Strategy and Policy Recommendations



Monitoring and evaluation framework



Policy Recommendations by 5 themes

Thank You



Milton Keynes
City Council

Buckinghamshire Business First

Daniel Cope

20th November 2023





Tackling the Climate and Nature Crises: Our work so far

Net Zero Projects	Carbon Reduction (tnCO₂e)						
Low Carbon Workspaces Phase 1	16,221						
Low Carbon Workspaces Phase 2	41,220						
Boost Green	4,387						
Energy Resilience Programme	2,241						
Net Zero MK 2022/3	523						
Net Zero MK 2023/4	181						
Net Zero Bucks	1						
TOTAL	64,775						

This is the same as...

13,102 medium petrol cars annually



19,637 homes average annual carbon emissions



0.02% of the UK's annual carbon emissions







The work we're doing

net zero: Bucks

- Supports businesses in Buckinghamshire on their Net Zero journey.
- Providing ongoing 1-2-1 specialist support and carbon footprint calculations.
- Funded by the UK Shared Prosperity Fund through Buckinghamshire Council.

net zero:MK

- Supports businesses in Milton Keynes on their Net Zero journey.
- Year 2 of the programme has a 37% retention rate from year 1 participants.
- Funded by Milton Keynes City Council through the Green Business Recovery Fund.











The work we're doing

Low Carbon Workspaces

- Supported 933 unique businesses (SMEs) to cut emissions by
 5,033 tonnes of CO₂e annually.
- Installed measures are expected to deliver lifetime carbon savings of 57,220 tonnes of CO₂e.



What BBF have done as an organisation

- BBF have made the SME Climate Commitment, to be a Net Zero organisation by 2050, with emissions halved by 2030.
- Ensuring employees are kept updated with best practices for working from home, implementing net zero requirements within procurement, and offsetting emissions through a gold standard certified Malawi cookstove programme.







Working in Partnership

- Tackling the Climate and Nature Crisis is part of what we do best.
- We work closely with Buckinghamshire local authorities, in addition to other councils within the region.
- We collaborate with consultants such as Climate Essentials, and global non-profit initiatives like the SME Climate Hub which helps grow the knowledge of both BBF and the businesses we support.









Working in Partnership

- Working closely with Heart of Bucks and the Charity sector, as well as government funded organisations like The Greater South East Net Zero Hub.
- Being the voice of the business community throughout the county.
- We run events and workshops designed to inform and help businesses make sustainable steps towards Net Zero.











Get in Touch



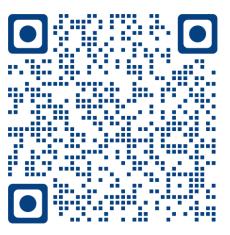
Buckinghamshire Business First website bbf.uk.com



Net Zero team netzero@bbf.uk.com or dan@bbf.uk.com



Daniel Cope









Rural Business Advice Service

- Providing support and advice to rural businesses
- Focus on Funding
 - National Schemes Farming Transformation Fund
 - Farm Investment Fund Adding Value, Water Resource, Slurry Infrastructure Themes
 - Farm Equipment & Technology Fund
 - Farming in Protected Landscapes
 - Rural England Prosperity Fund Bucks Rural Business Grant
 - £1.8m to be spent by March 2025.













Rural Business Advice Service

Developing and supporting projects relevant to land based businesses.

Measuring Natural Capital using Trinity Agtech's SANDY platform.

SANDY is a toolkit for measuring and optimising a farm's:

- Carbon balance
- Biodiversity
- Water quality
- Productive and financial performance

Ability to use Sandy's artificial intelligence to predict the impact of various management decisions on these assets - enabling farm businesses to make decisions that boosts profitability & sustainability.



















Rural Business Advice Service

Promoting and coordinating wider activity raising awareness of:

- Agri living Lab and SA Catapult
- Agri tech development opportunities
- Farm Clusters
- Bucks Rural Forum
- SEMLEP Rural Forum
- Local food and drink partnerships/projects
- Defra Policy Team and Consultations

Supporting businesses to ensure land-based industries are both financially and environmentally sustainable













Get in touch

We're here to help!



Online

Extensive information and links to a vast range of business support, tools and templates **bbf.uk.com**



Email

Benefit from our team's expert knowledge **BusinessSupport@bbf.uk.com**



DD: 01494 927167 **M**: 07802 411040

E: william.dallimore@ngagesolutions.co.uk

W: bbf.uk.com/rural-ngage



Hotline

For all business enquiries

01494 927130

















Floodplain meadows: a model of sustainability

David Gowing
Floodplain Meadows Partnership
Open University





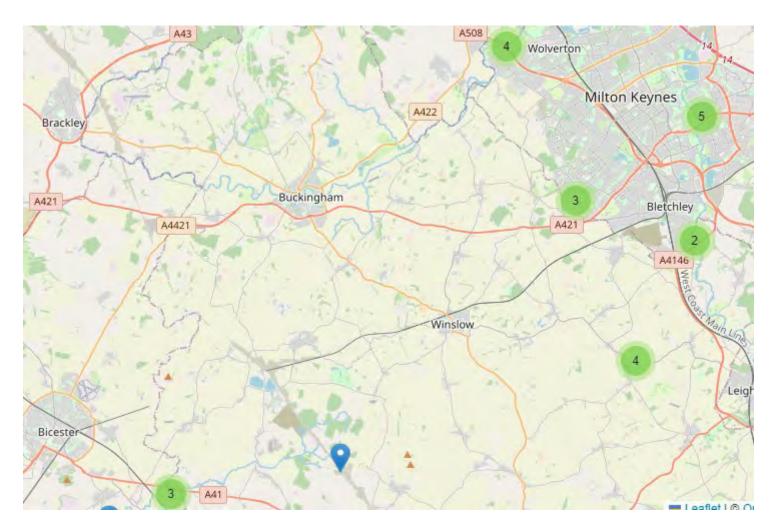
Floodplain Meadows in Buckinghamshire

River Great Ouse

- Oxley Mead
- Tattenhoe

River Ray

- Leaches
- Long Herdon



Floodplain Meadow restoration

Why restore?

- Biodiversity
- Aesthetics
- Sustainable food
- Flood-risk management
- Cleaner water
- Carbon capture



We have collected data from over 200 restoration schemes nationwide to share best practice:

Key finding – it's not what you do but the way that you do it!























www.floodplainmeadows.org floodplain-meadows-project@open.ac.uk @Floodplainmead



Carbon vs Biodiversity?

Harmonising two global challenges.



The Parks Trust Milton Keynes



















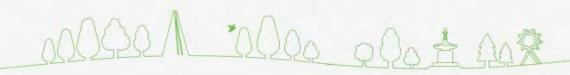
Be Carbon Neutral by 2030

Establish a baseline carbon footprint and work to reduce our scope 1 and 2 emissions in our programmes and operations

Deliver Quality Spaces For Nature

Utilise wildlife assessments to set action for creating and restoring habitats to their highest possible condition







Farming and Ecosystem Services





MOSO / 10()





What this means for the Trust...

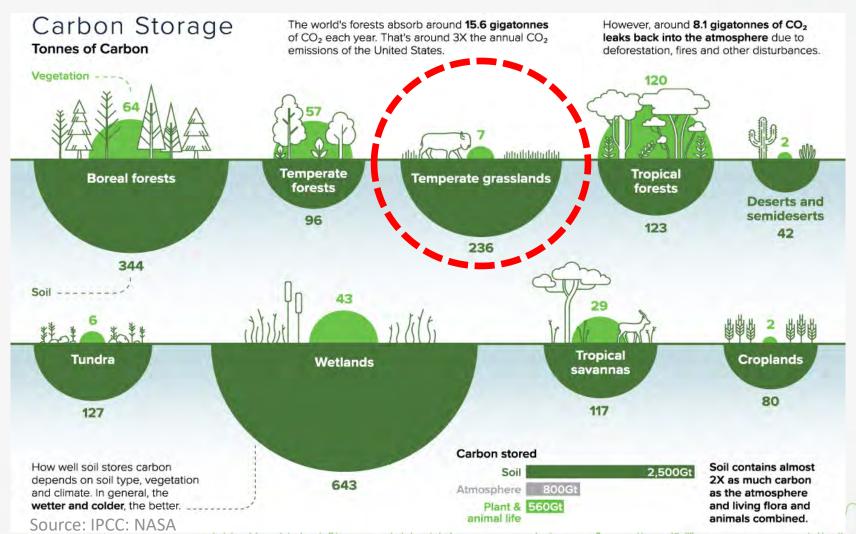
- Creation and regeneration of habitat through grazing
- Allowing for larger and rougher margins
- Hedgerow thickening and connectivity
- Creation of wood pasture
- Creation of buffer strips along rivers
- Protecting soils from erosion
- Understanding and managing stocking densities
- Preserving soil structure to increase carbon sequestration
- Better slurry management
- Better water management (rainwater harvesting & treatment)
- Support for innovation

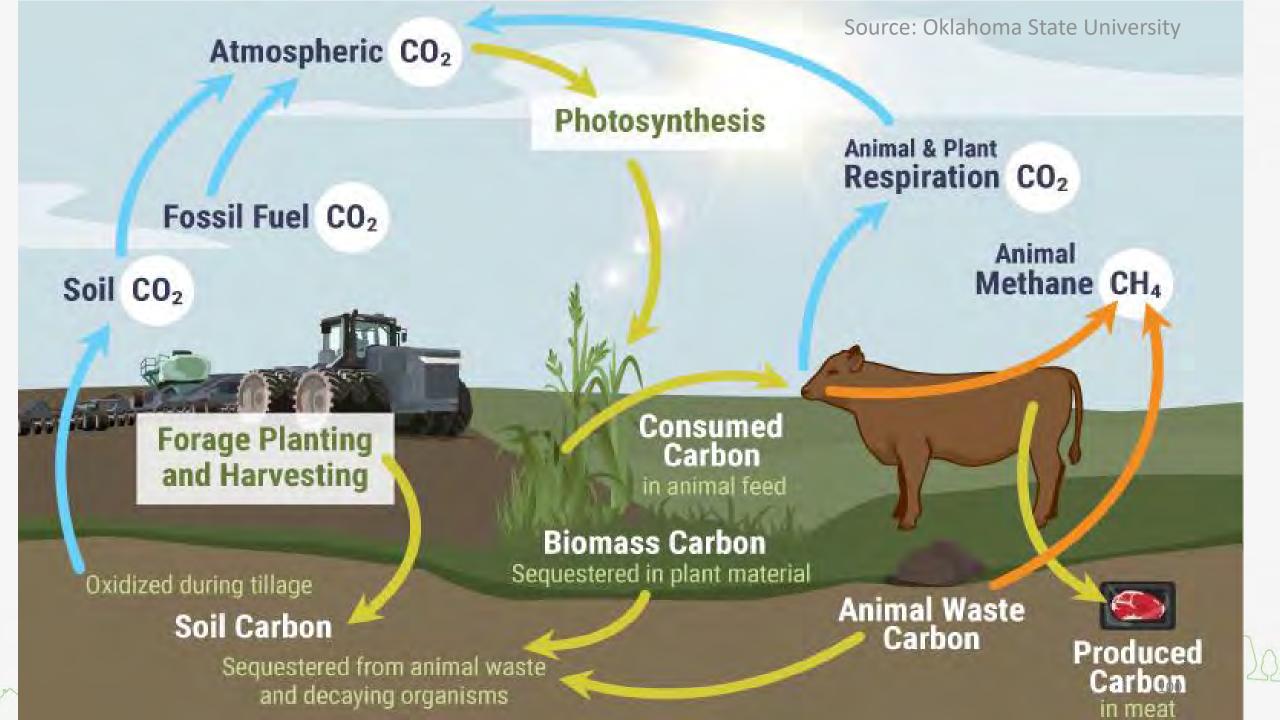




Biodiversity vs Carbon

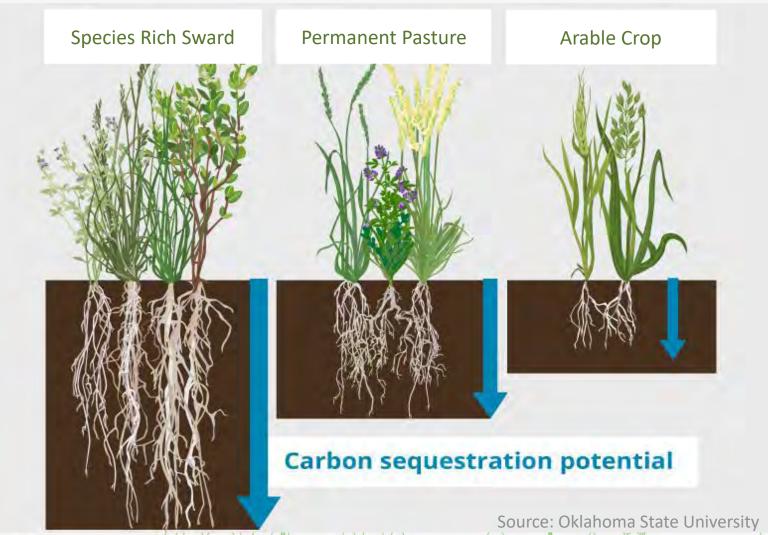






Biodiversity vs Carbon





101



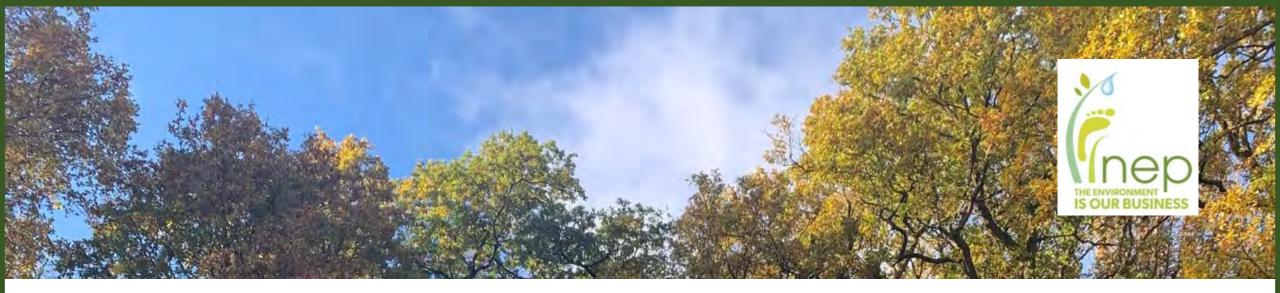


- We currently farm as a means of effective land management
- Multiple changes and challenges are ongoing that require adaptions
- In farming for the future, we are seeking to optimise biodiversity and ecosystem services outcomes









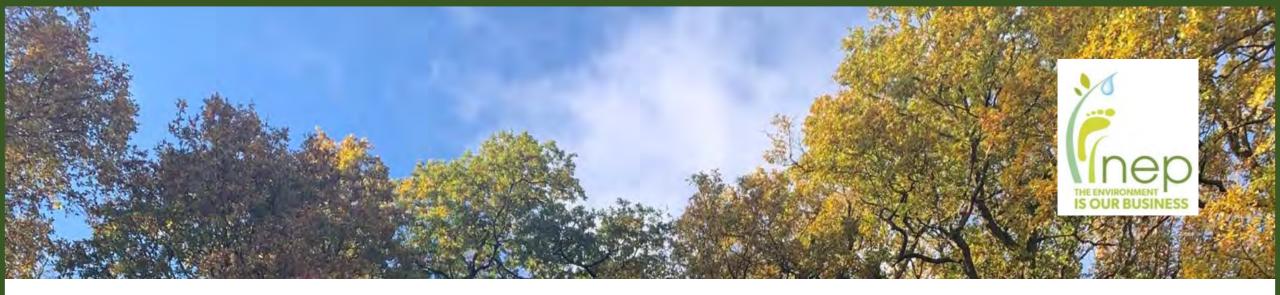
WORKING LUNCH! — Proposals for the Dragons!

What more can the NEP as a partnership do to jointly tackle the climate and nature emergency?

(Esp with the Health, Farming, Business sectors)

Priorities, opportunities, enablers, challenges, immediate next steps

1 idea per table, spokesperson please! Feedback at 12.50!!



Jointly Tackling the Climate and Nature Emergency

Bucks & MK NEP Partnership Forum

THANK YOU!