## FARMING & COMMUNITY ADVICE & SUPPORT FOR OUR CLIMATE & NATURE RECOVERY



#### Session outline

- How prepared are you to facilitate and advise on climate resilience through regenerative farming in your community?
- How confident are you that we can act together in time? % Hope
- 25 mins Farming and Community Advice for our Climate and Nature Recovery Jenny Phelps MBE
- 10 mins Environmental Advisers Register and Training Teresa Meadows BASIS
- 10 mins Developing the skills to be a successful facilitator for social, economic and environmental action – Fiona Galbraith Ruralink
- Workshop
- 30 mins Transferable case studies how integrated local delivery can be a framework for locally led joined up action.

#### Aims

- Setting the scene Climate Emergency
- Facilitating transformational change in a global context
- Role of Regenerative Agriculture as a route for systems change
- How do we get there with multiple developing funding streams?
- Essential role of advice in delivering an integrated local delivery framework how to Act Now
- Facilitating Local Solutions who to we look to for skills/training and advice –
   BASIS
- Can we develop a circular economy with a transformation of the food, fibre and fuel system – multiple investment ready projects
- A transferable template for community resilience working with farmer groups/clusters

RESOURCES >



#### Climate Change 2022: Impacts, Adaptation and Vulnerability

The Working Group II contribution to the IPCC Sixth Assessment Report assesses the impacts of climate change, looking at ecosystems, biodiversity, and human communities at global and regional levels. It also reviews vulnerabilities and the capacities and limits of the natural world and human societies to adapt to climate change.

3.5 billion People living in areas vulnerable to climate change



## Climate Change Risk Assessment 3 Chapter 3 – Natural Environment and Assets

#### **Urgency: MORE ACTION NEEDED**

#### Soils

- Changes in land use / land mgmt. required
- > Spatially targeted support schemes & advice
- ➤ More investment in large-scale monitoring data/indicators linked to actions & functions
- > Recognise that soils are complex and variable
- Integrate adaptation / mitigation

https://www.theccc.org.uk/publication/independent-assessment-of-uk-climate-risk/

## Urgency: MORE ACTION NEEDED Agriculture and Forestry

- ➤ Targeted advice & outreach on evolving risks/opportunities
- Encourage innovation/diversification
- Dissipate agric/forestry sector boundaries & develop integral strategies, incl. agroforestry etc.

### WHERE ARE WE NOW? THE FINANCIAL AND ECOLOGICAL STATE OF UK FARMING

Drawing on the well-established economic theory of externalities, we identify six major hidden costs of dominant forms of industrialised agriculture: climate change, water pollution, poor nutrition, toxic chemicals, antibiotic resistance and destruction of biodiversity.

We set out four major threats to business as usual that establishes a strong case for a rapid and large-scale transformation in farming methods:



degrading natural assets



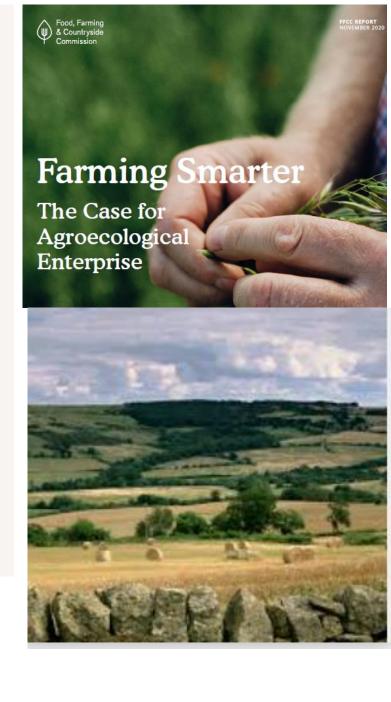
2. high and volatile input costs



3. vulnerability to a changing climate



4. shifting consumer trends



https://ffcc.co.uk/assets/downloads/FFCC-2020-Farming-

<u>Smarter-The-case-for-agroecological-enterprise.pdf</u>

https://ffcc.co.uk/events/farming-for-change

## Environment Bill/Act

- (5) In this Part "environmental principles" means the following principles
  - (a) the principle that environmental protection should be integrated into the making of policies,
  - (b) the principle of preventative action to avert environmental damage,
  - (c) the precautionary principle, so far as relating to the environment,
  - (d) the principle that environmental damage should as a priority be rectified at source, and
  - (e) the polluter pays principle.

## A complicated maze of funding streams

Levelling Up Fund; Shared Prosperity Fund; Woodland Carbon Code; Peatland code

Farming in Protected Landscapes Soil farm Carbon Code....

Carbon trading

**Biodiversity Offsetting** 

**Conservation Covenants** 

Payments for ecosystem Services

Nature base solutions

Farm Resilience funding

Regenerative Agriculture



Countryside Stewardship

Environmental Land Management Scheme

Sustainable Farm Incentive Pilots

Landscape Recovery Pilots

Investment Readiness Funding

Green Recovery Fund

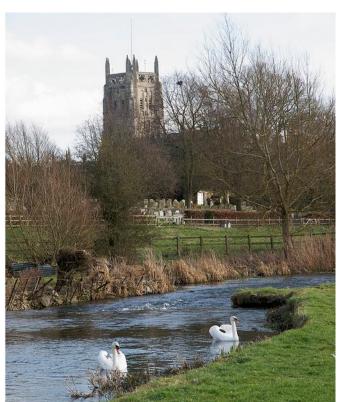
Diversification and Adding value; Woodland creation Offer....and many more

Water Environment Grants.....

A Systems Approach - Integrated Local Action/Delivery Communities supported to take climate action to work with groups of farmers supported by a specialist adviser/facilitator

It is a **simple framework** that values local and farming knowledge and brings all strategies together at a local level to achieve **multiple international delivery opportunities with an all inclusive partnership**.

- Respects and connects to people's sense of place
- Inspires and enables them to lead on the protection of their own local environment
- Delivers multiple strategies with all partners in support – including food security
- Builds strong socio- economic communities

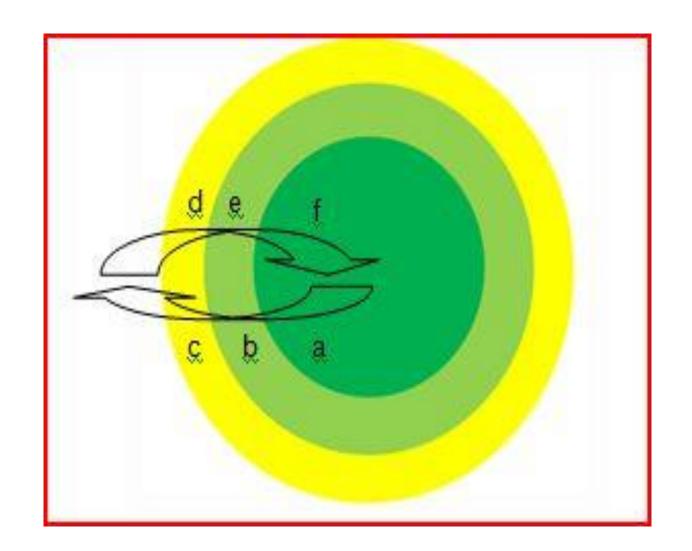


## Integrated Local Delivery (ILD) framework

8 key themes to the approach:

Works at lowest appropriate administrative structure; Clarifies statutory and non-statutory partners: Delivers objectives at landscape scale; Supports and values the farming community; Facilitation to develop local/ stakeholder group; Incorporates the Parish or Ward Council - GRCC; Enables inclusive multi objective delivery; Identifies funding opportunities, resources and match funding. Identifying projects of multiple benefits Linked to parish/ neighbourhood planning that could be funded from multiple sources

## Administrative area — initial scoping Everything that can be delivered

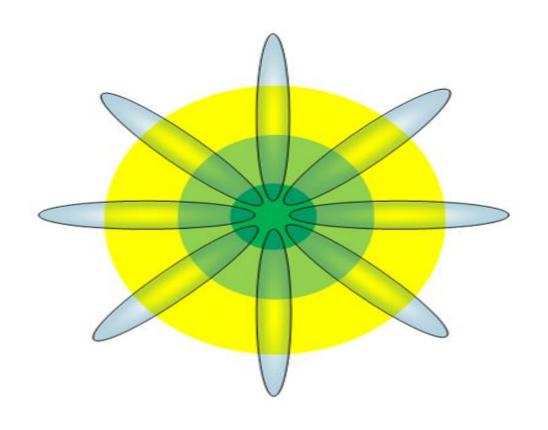


Local to national and back to local.

Asset scoping identifies locally relevant partners

Who can work together to support local delivery

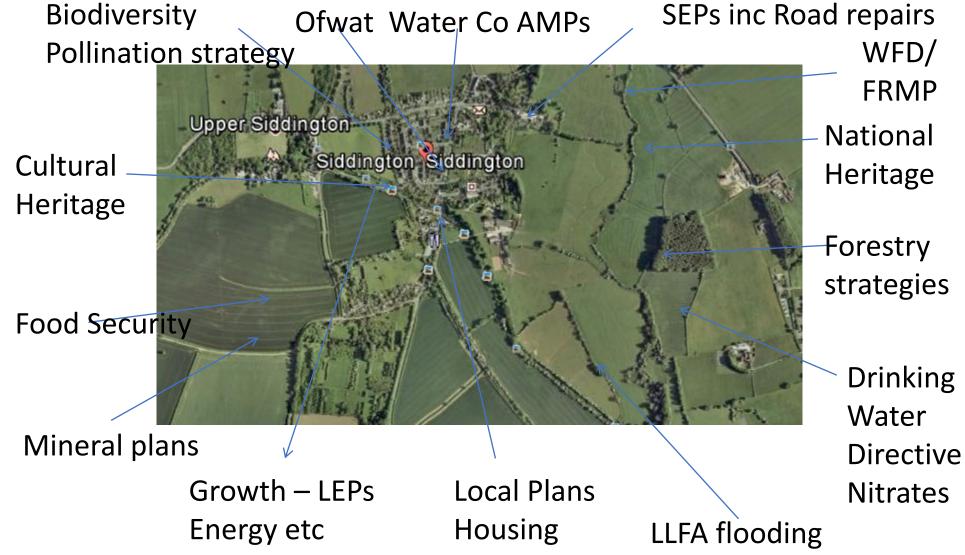
#### **ILD Flower**



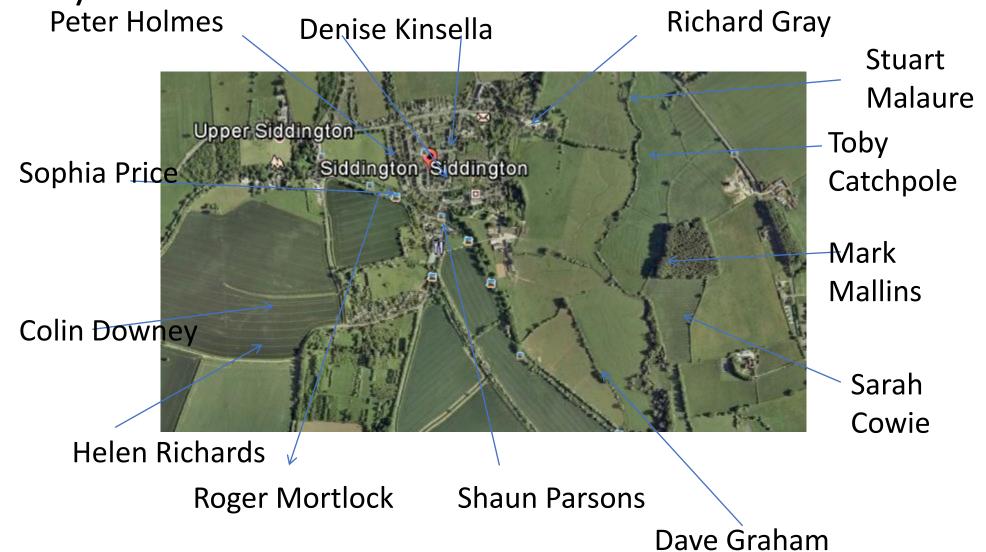
## Asset Scoping the Parish



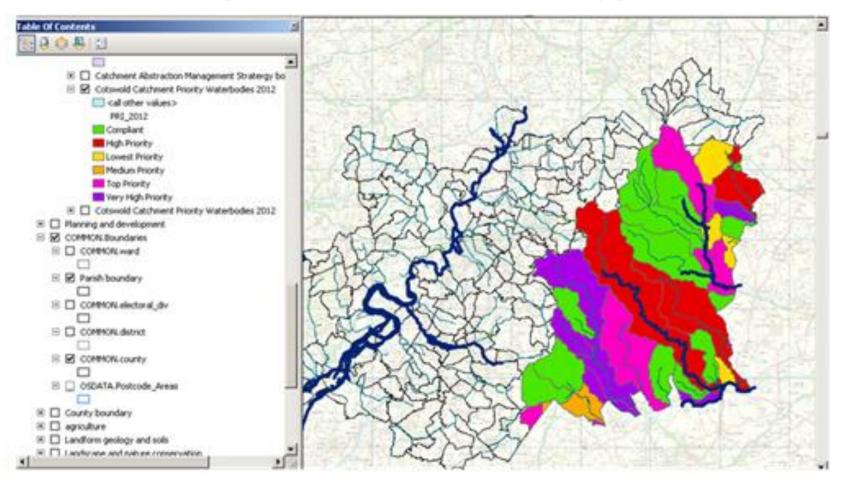
Strategy Scoping the Parish



### Locally relevant contacts for the Parish

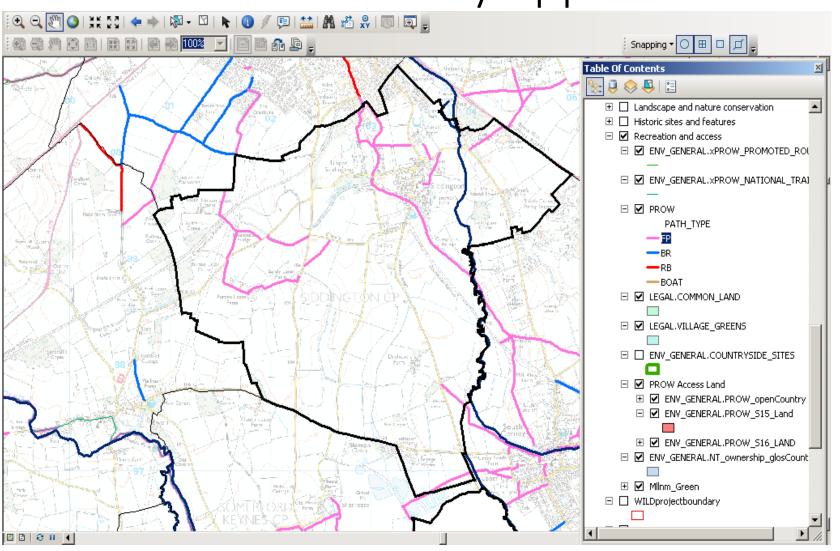


Developing Integrated approach that over layers all strategies, linking to growth, to understand all locally relevant partners and realise all opportunities All Depts.



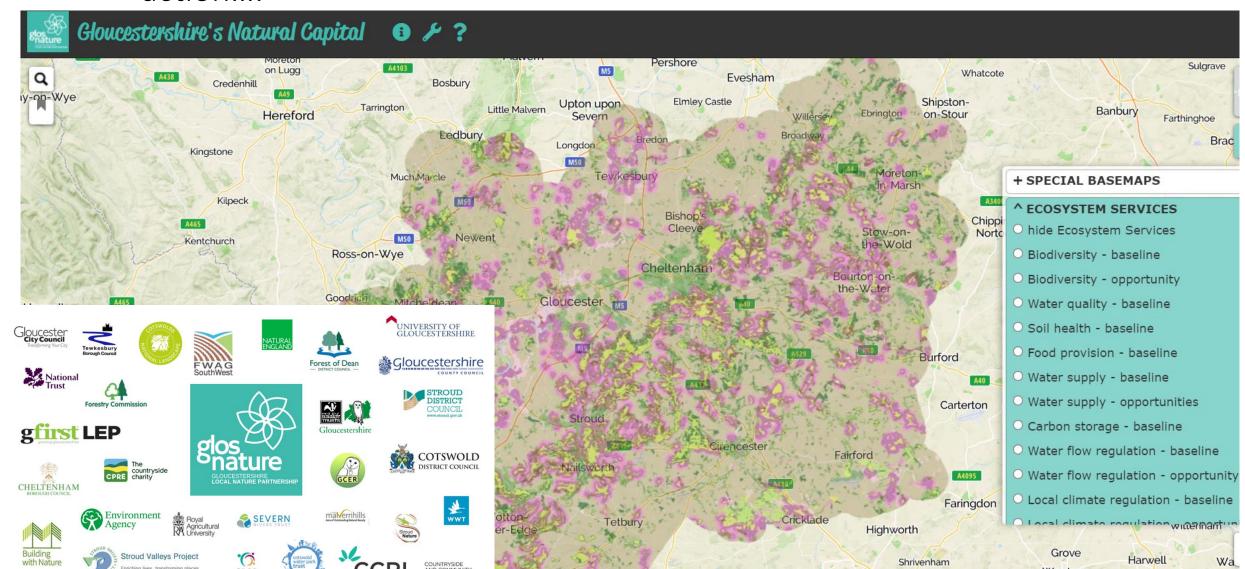
200 layers so far – locally relevant contacts Web Portal hosted by CCRI/County Council

## Identifies and integrates *all* environmental delivery opportunities



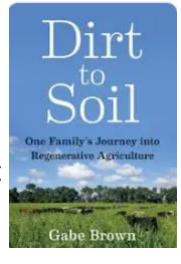
Locally relevant contacts from all organisations

Land managers helping to build a verified baseline for coinvestment at a county level for blended finance and local action....



### Regenerative Agriculture- what is it?

Regenerative Agriculture is a system of farming principles and practices that produces quality food, increases biodiversity, enriches soils, improves water quality, reduces flooding and enhances ecosystem services.



It aims to capture carbon in the soil and above ground biomass (plants), reversing current global trends of atmospheric accumulation and climate change.

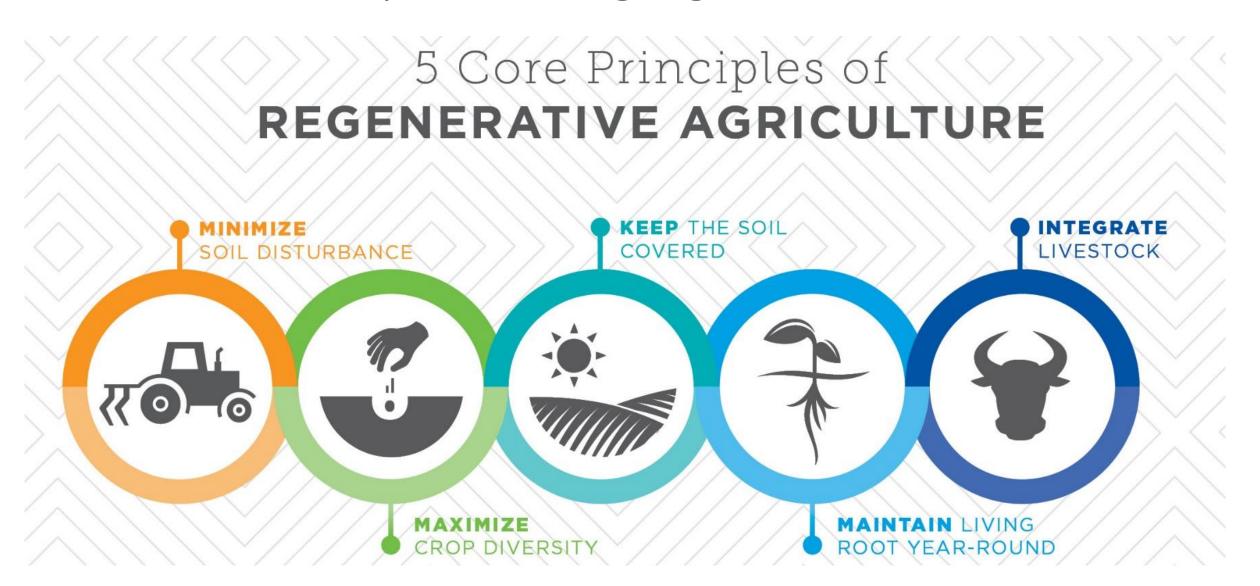
At the same time, it offers optimum yields, resilience to climate instability, high health and vitality of farmland, livestock and helps build resilience for farming and communities.

https://www.carboncowboys.org/

https://www.codeandtheory.com/things-we-make/the-terraton-initiative

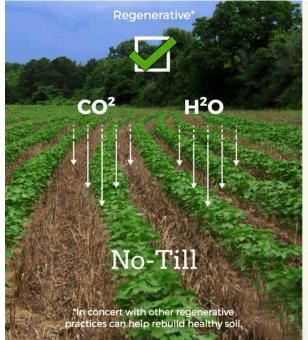
https://www.kisstheground.com https://www.agricology.co.uk/

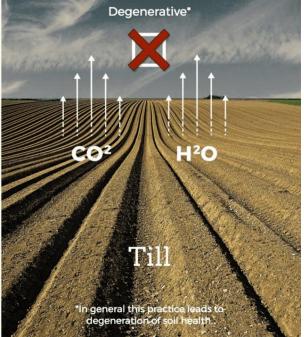
### 5 Core Principles of Reg Ag:



### Minimising Soil disturbance

Soil structure
Aerobic
Biological recovery
Nutrient availability

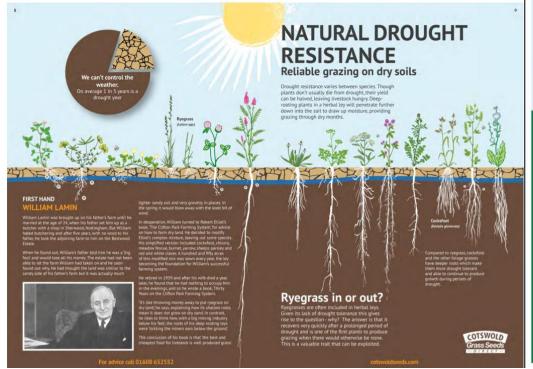


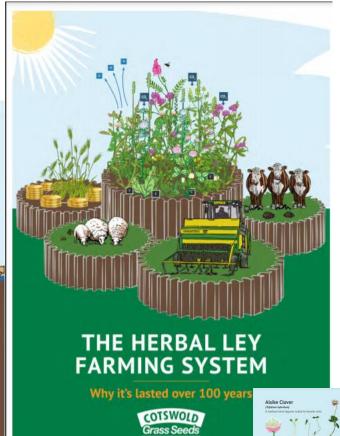




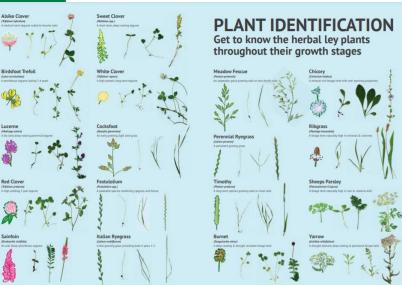


## Crop diversity





https://www.agricology.co.uk/sites/default/files/Herbal%20Leys%20Guide.pdf





## Maintaining living roots



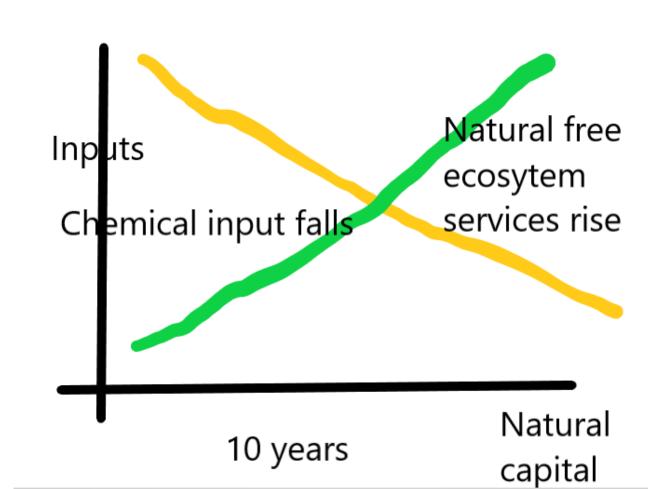
Mycorrhizae form a natural root barrier against pathogens and produce Glomalin (green fluorescing )



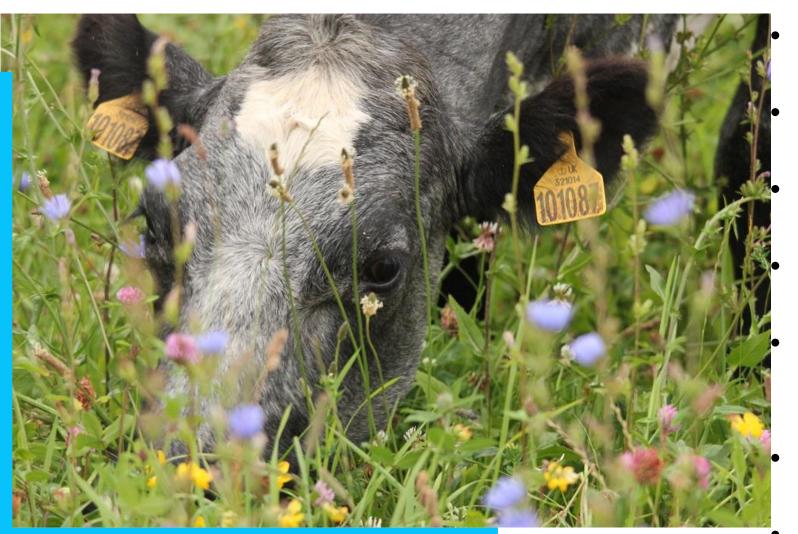


## Profits – by reducing inputs, restoring free ecosystem services, optimising outputs

- Rebuilding farmland ecology
- Improving OM in soil
- Allowing natural processes
- Supporting production
- Integrated pest management
- Stacking enterprises



## Integrate livestock



Rotational, mob or tall grass

Grazing on diverse pastures

Livestock in the arable rotation

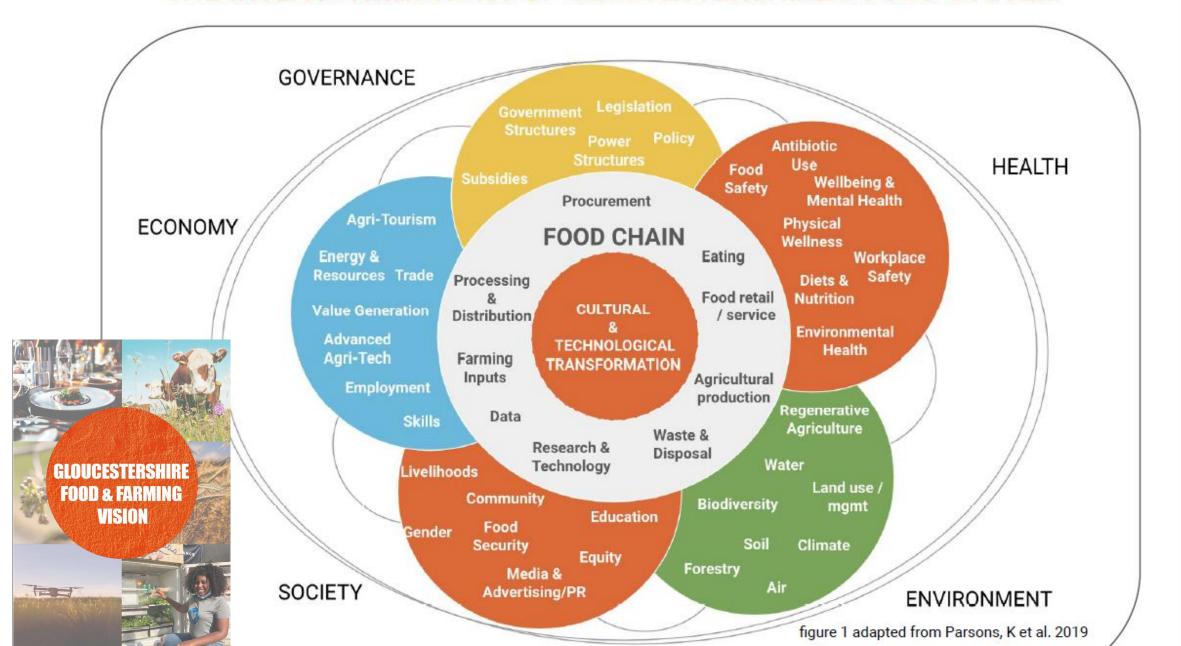
Feed grass to ruminants not grain (and chickens)

Reduces need for worming and vets bills

Builds soil carbon, holds moisture

Underpins ecological recovery

#### THE INTERCONNECTIONS OF GLOUCESTERSHIRE'S FOOD SYSTEM















- DISTRICT COUNCIL -





































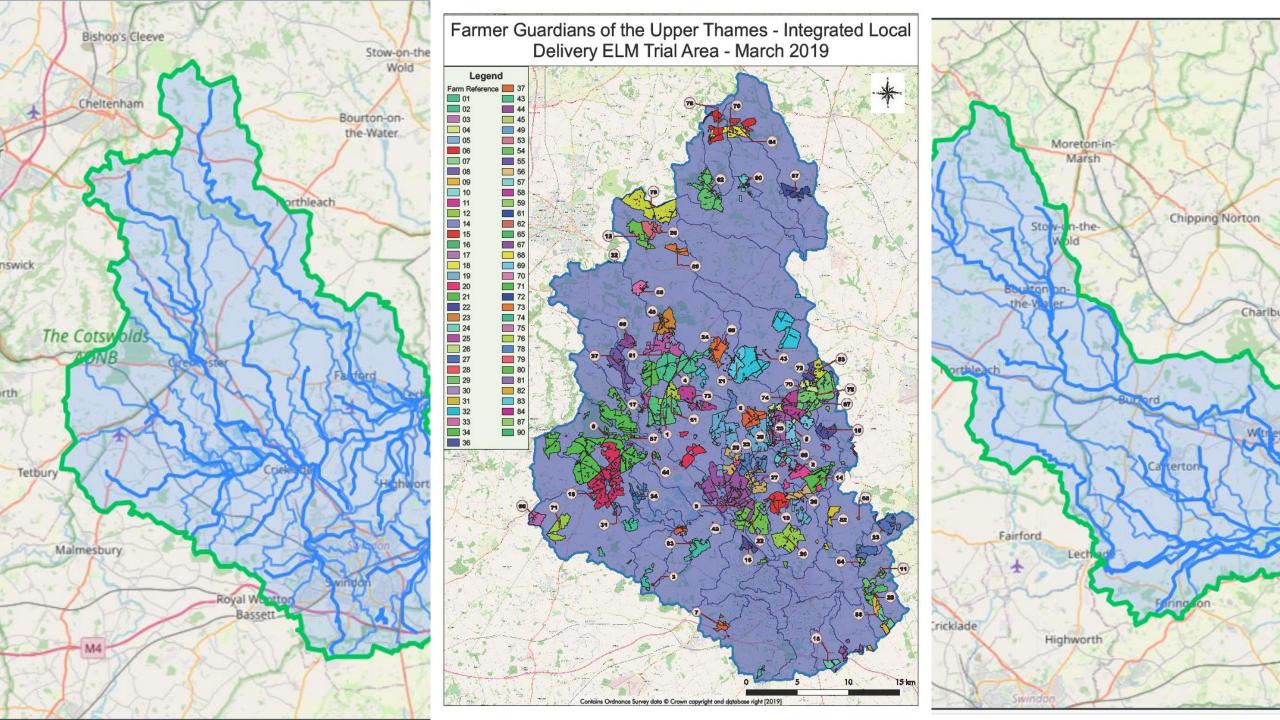






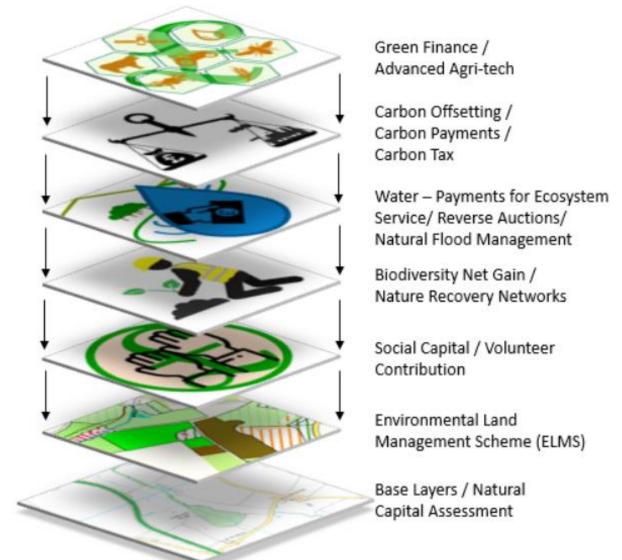




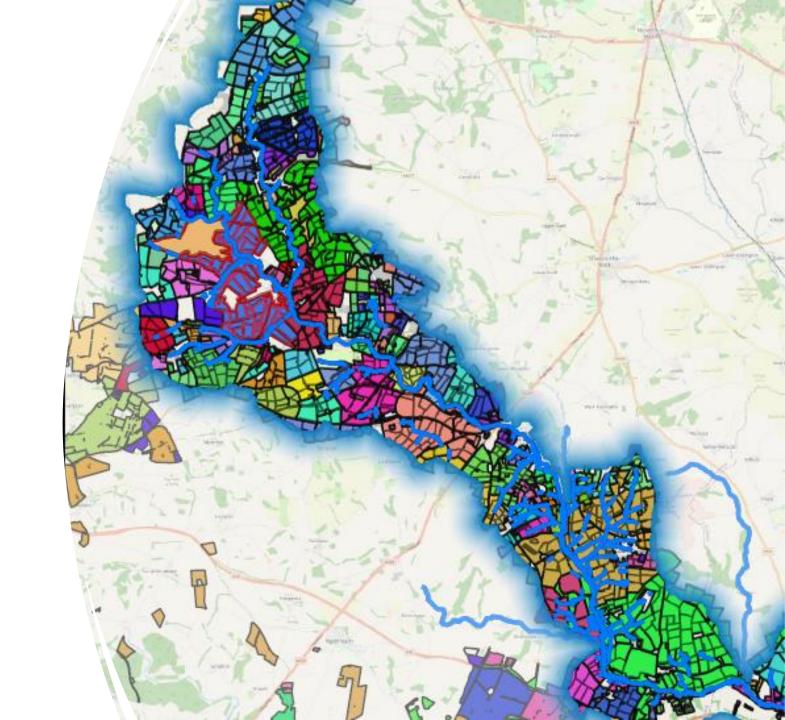


Aggregation of Blended Finance from local partnerships and investors needs a vehicle to receive

funding



# Water body templates



## Multiple Investment ready projects

#### **Catchment Data Explorer**

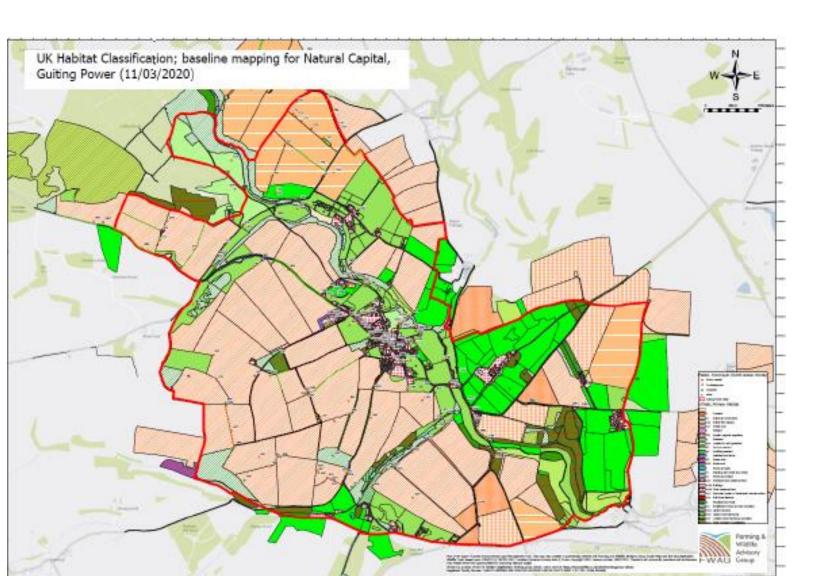


lome Useful Links API Reference Data downloader Help Glossary Noticed a problem?

Search ▼

Home ▶ Thames ▶ Gloucestershire and the Vale ▶ Thames Upper ▶ Ampney and Poulton Brooks (Source to Thames)

## Building Communities Resilience working with groups of farmers along water bodies



## Community UK Habitat Map linking to:

- Neighbourhood and Parish Planning
- Local Plans
- National Planning
- Policy Framework
- Net Gain
- Climate Emergency

https://drive.google.com/open?id=1jGZOq3C8mFPWcefH9A-V3X3uPQzUEWdT



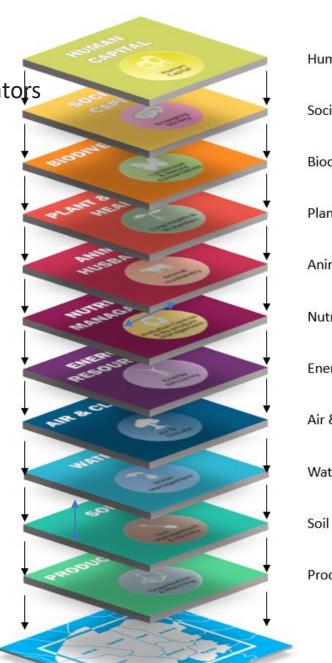
## "To bring multiple stakeholders together to solve such complex issues takes advanced people skills"

- Developing the skills to be a successful facilitator for social, economic and environmental action
- Essential, practical training for professional and volunteer rural facilitators
- https://ruralink.org.uk/facilitator

#### Farmers and Communities need support.

Progression towards accredited specialist advisers and facilitators working to a common framework to support locally relevant action (skills, training opportunities and the development of a professional register)





**Human Capital** 

Social Capital

Biodiversity

Plant & Crop Health

Animal Husbandry

Nutrient Managemer

Energy & Resource us

Air & Climate

Water

Productivity



Advisers could collect sustainability productivity and mapping



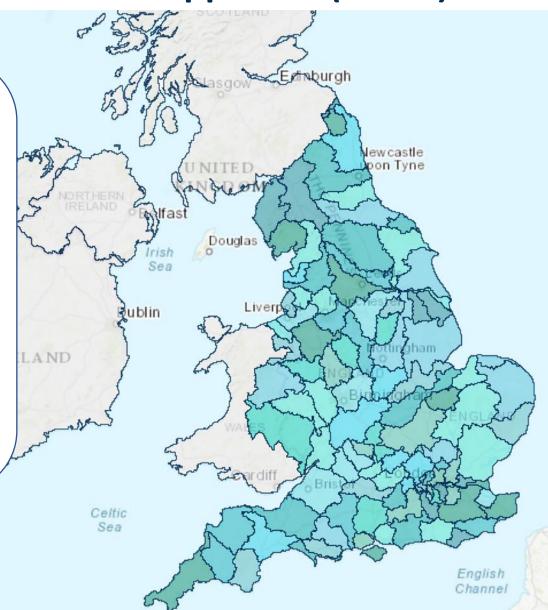




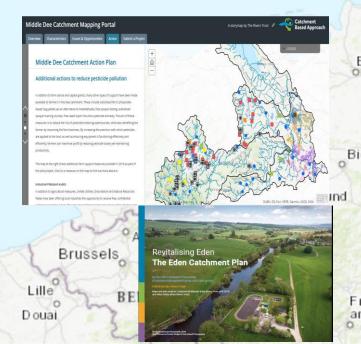
#### What is the Catchment Based approach (CaBA)?

105 CaBA
Partnerships encompass
a diverse range of partner
organisations that work
collaboratively and draw
on local knowledge &
expertise.

They are active in each of the 100+ Water Framework Directive catchments across England, including those cross-border with Wales.



integrated
management of land
and water,
addressing each river
catchment as a whole
and delivering
crosscutting practical
interventions on the
ground



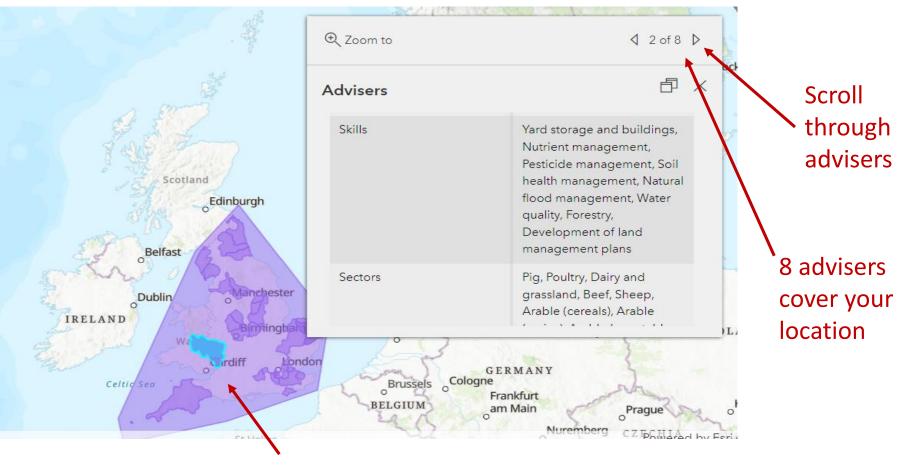
#### **Connections – Advisers**



#### 1. Register as an adviser

#### **Adviser Registration** Please note that all information provided using this form will be publically available. Do not include personal information such as your name, a personal email or a personal telephone number. Organisation\* Please provide details of how you would prefer to be contacted. Type of Boundary for Area Served\* Please select the type of boundary you would like to use to delineate the area your Catchment Partnership Catchments Environment Agency & Natural England Administrative Boundaries Local Authorities Radius Around Specified Location

#### 2. Find and Adviser



Click on

your location



National or Remote (and able to advise nationally)

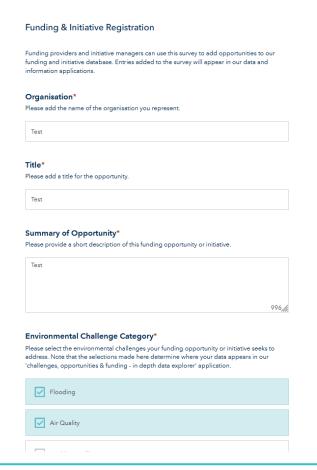
where there's water, there's life



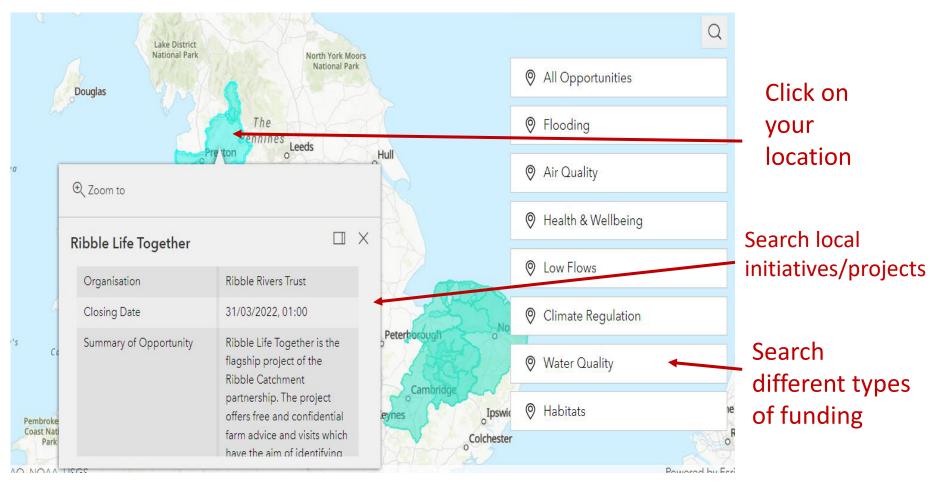
#### **Connections – Funding & Initiatives**



## 1. Register as a funder / landscape initiative



#### 2. Find Funding / local initiatives



the umbrella body of the rivers trust movement

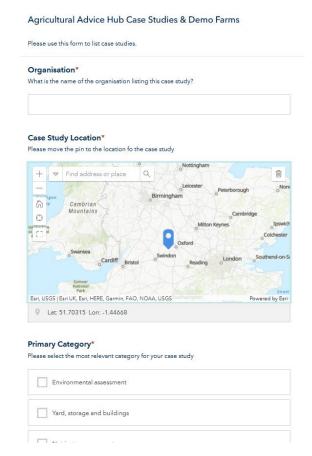
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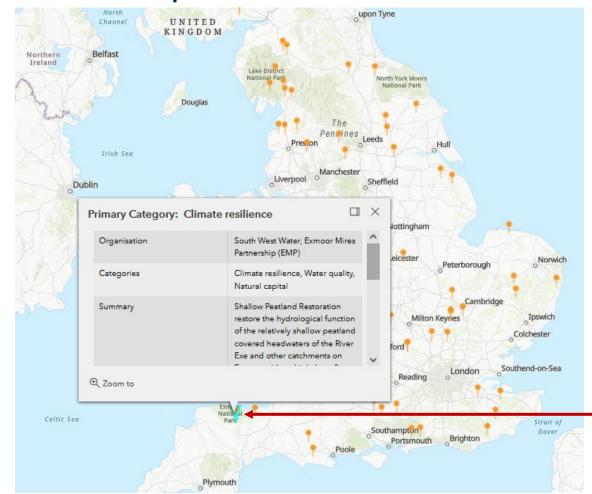
#### **Connections – Case Studies & Demo Farms**



### 1. Register case study or demo farm



#### 2. Find local examples



Click on case studies to find out more

the umbrella body of the rivers trust movement

where there's water, there's life



#### **Guidance & Best practice**



#### Guidance



Make connections Data & information Guidance & best practice

#### Farm Wildlife Toolkit

Do you already have an idea of what you'd like to implement on your farm but are looking for some guidance on how best go about it to benefit wildlife? Click on the links below to find further information about improving key elements of your farm.

Farm Wildlife is a partnership of organisations working together to provide a single source of best practice management advice for wildlife on farmland. Learn more about the partnership by clicking here.



**Existing Wildlife Habitats** 



Field Boundaries



Wet Features



Flower-rich Habitats



Seed-rich Habitats



Farmed Area

#### **Additional tools**

#### Additional Tools

There are lots of tools out there to support farmers who want to embrace more environmentally sensitive practices. Below are some our community think are useful. Click on the link to find out a bit more about the tool and see if it's right for you. Don't forget that you can use our 'Find an Adviser' tool if you need further advise or help with any of these tools.

- Farmscoper is a decision support tool that can be used to assess diffuse agricultural pollutant loads on a farm and quantify the impact of farm mitigation methods on those pollutants.
- . SCIMAP provides a framework to consider where in the landscape pressures of degraded water quality and flood waters are coming from and hence where mitigation actions would be most effective.
- The Land App is mapping software that allows farmers to manage all their data, projects and team from a single place.





Farmscoper



Scimap





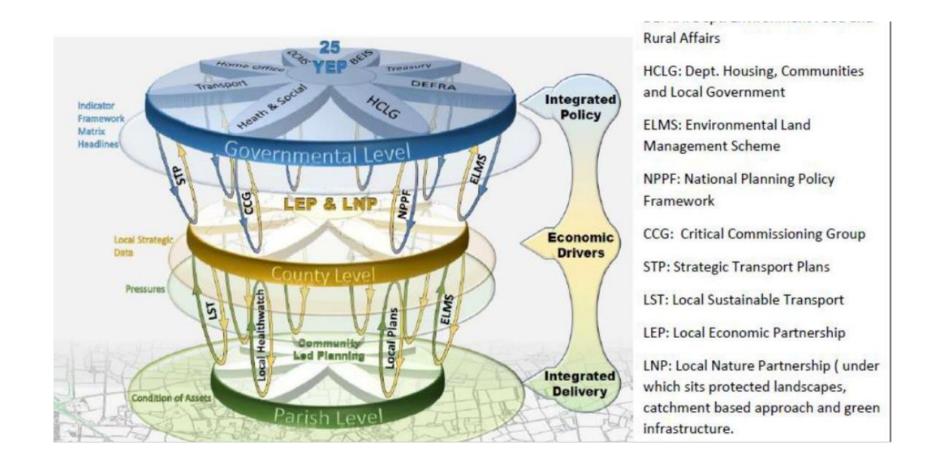
The Land App

Need help? Find an adviser



Local communities can take climate action to become resilient economically and environmentally by conveners helping to unpick complexity and enabling co-delivery on the ground.

Cost beneficial to Treasury to invest in facilitators and conveners. 1:6 £s



### Scoping

- https://magic.defra.gov.uk/
- https://environment.data.gov.uk/catchment-planning/
- https://catchmentbasedapproach.org/get-involved/
- https://www.lepnetwork.net/about-leps/location-map/
- <a href="https://www.gov.uk/government/publications/map-of-local-nature-partnerships">https://www.gov.uk/government/publications/map-of-local-nature-partnerships</a>
- https://www.local.gov.uk/
- Local and neighbourhood plans declarations of climate emergency