

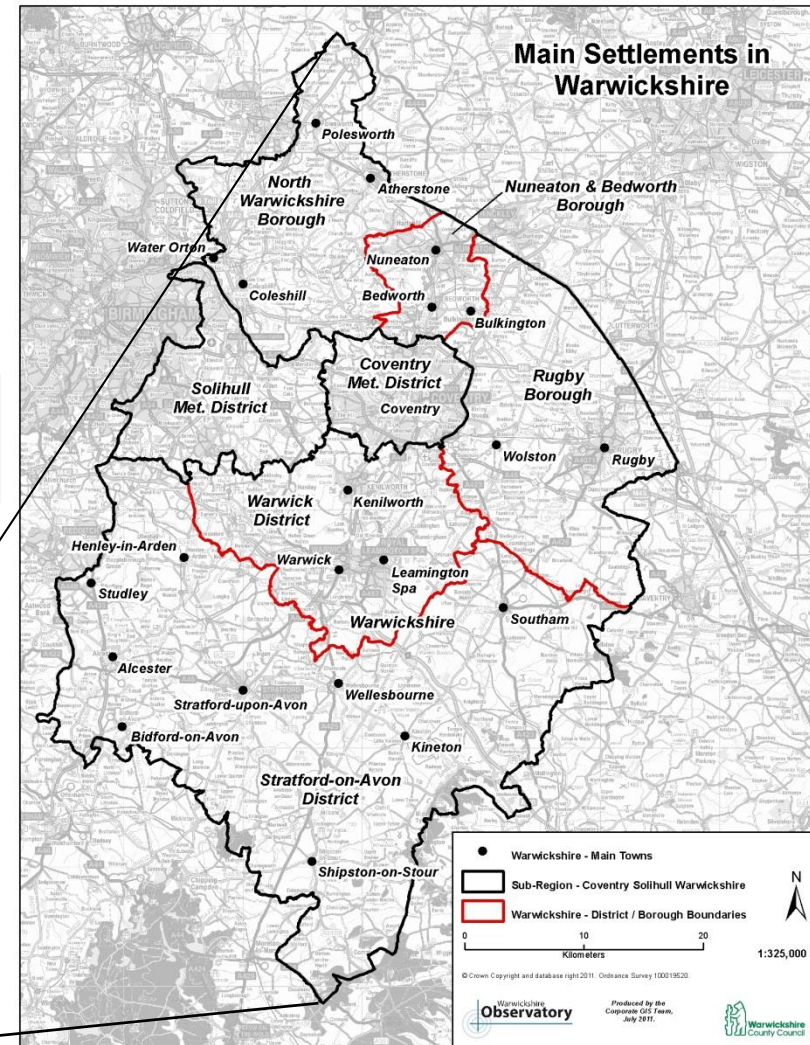
# FROM STRATEGY TO POLICY THROUGH TO DELIVERY

## Warwickshire, Coventry and Solihull

David Lowe

Team Leader: Ecology, Historic Environment  
& Landscape

[davidlowe@warwickshire.gov.uk](mailto:davidlowe@warwickshire.gov.uk)



## Context

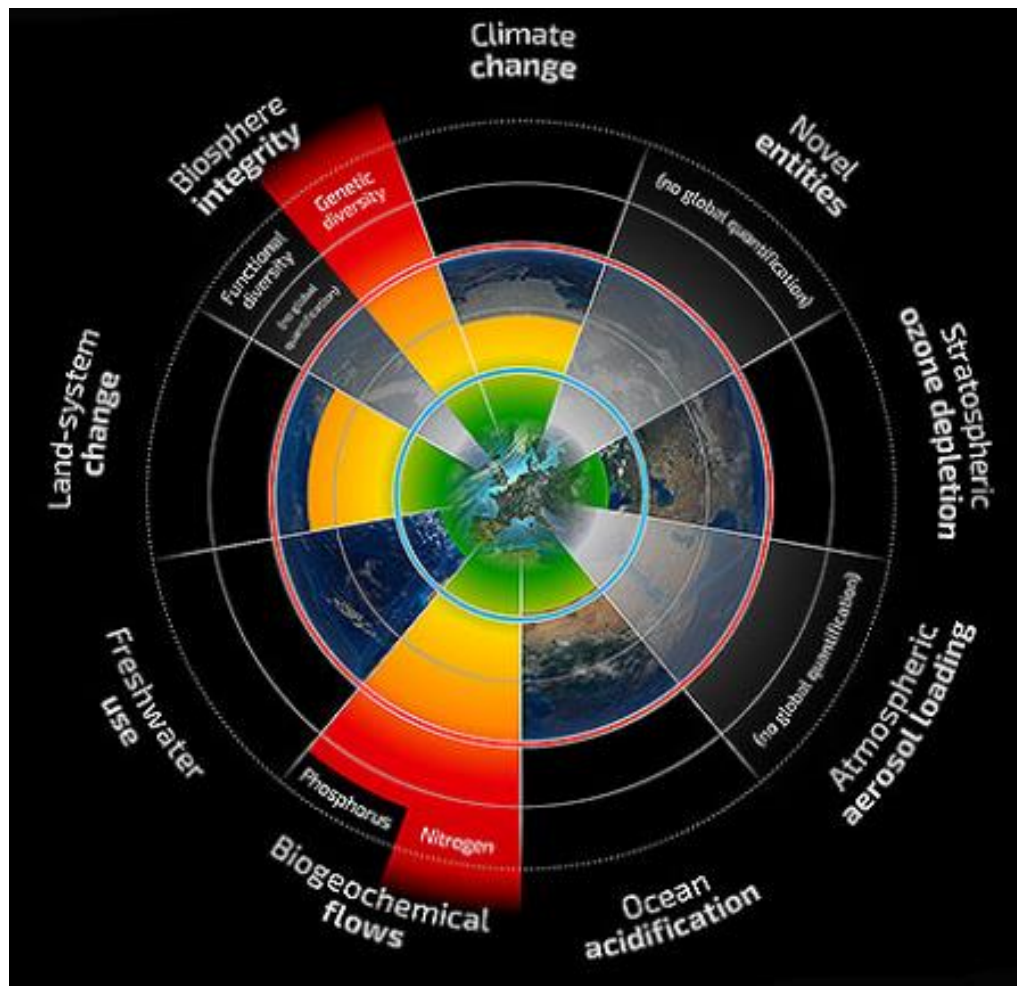
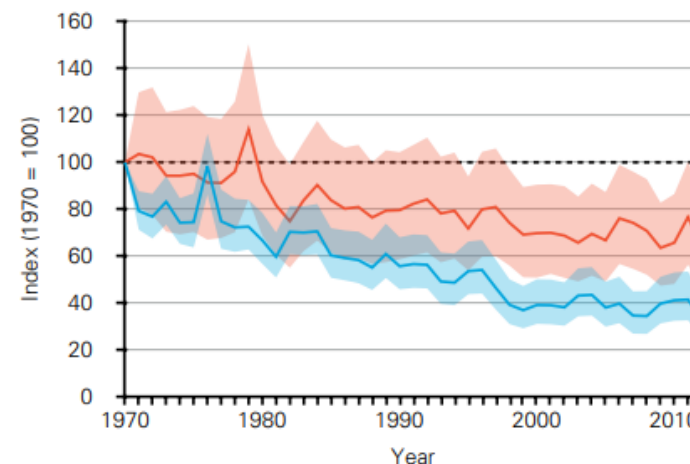


Illustration: F. Pharand-Deschênes /Globaia

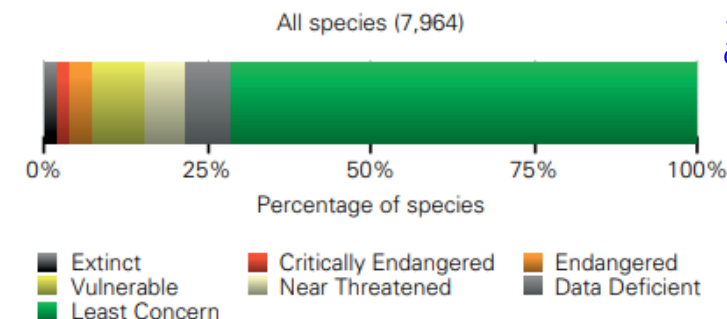
<http://www.stockholmresilience.org/research/planetary-boundaries/planetary-boundaries/about-the-research/the-nine-planetary-boundaries.html>



**Figure 3**

The UK Priority Species Indicator<sup>1</sup> shows the Abundance Index (blue) for 213 priority species, and the Occupancy Index (red) for 111 priority species (measured as the proportion of occupied sites). The shaded areas show the 95% confidence intervals.

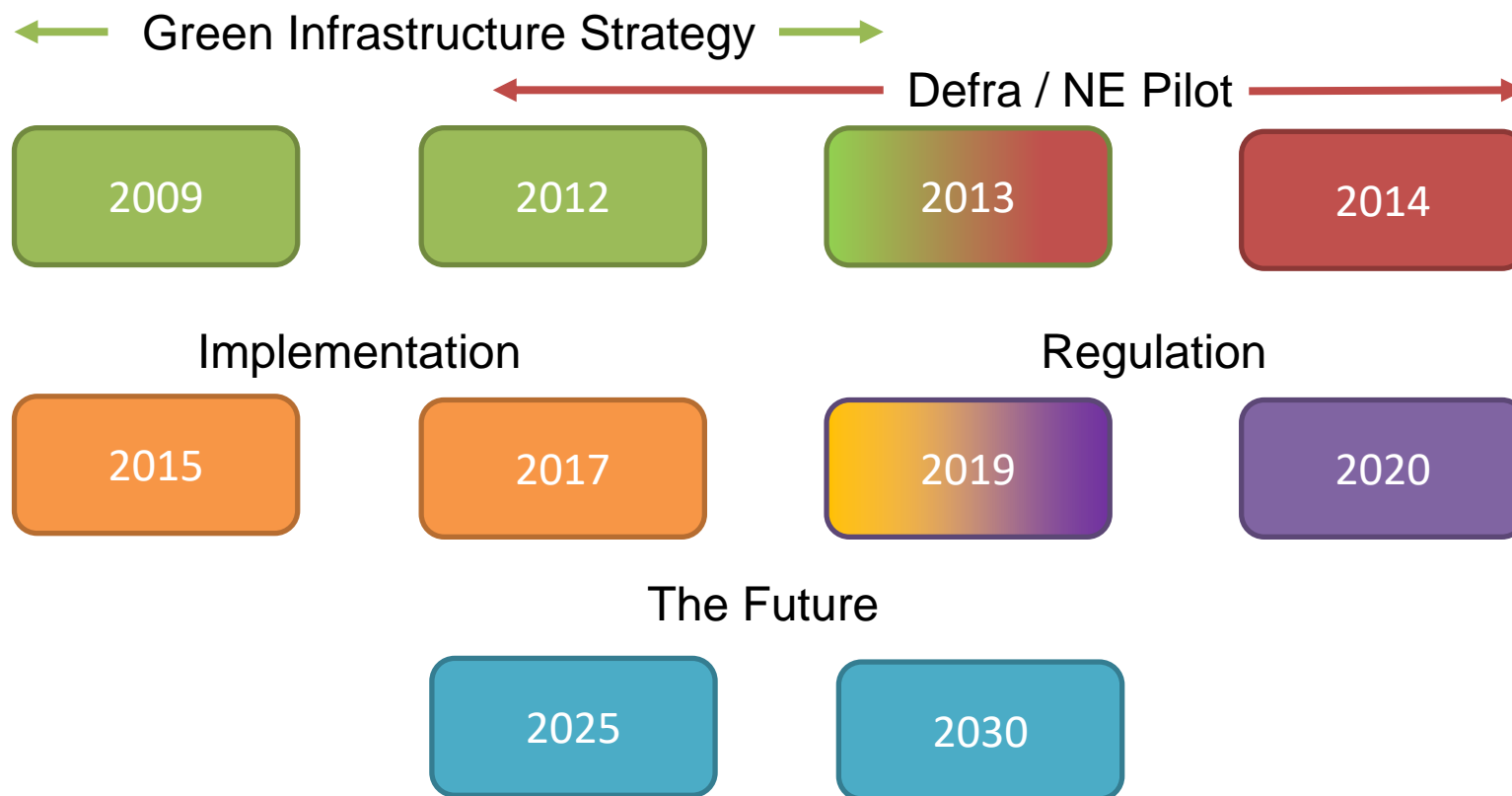
### National Red Lists



**Figure 4**

The percentage of species in each risk category, based on the likelihood of extinction from Great Britain. Species considered to be threatened with extinction from Great Britain are those classified as Critically Endangered, Endangered or Vulnerable in the latest International Union for Conservation of Nature (IUCN) Red List assessments.

## Content



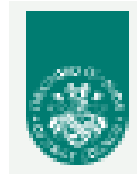


## GREEN INFRASTRUCTURE 2009 - 2013

The purpose of this Strategy is to provide evidence for the preparation of plans, policies and strategies at a sub-regional level

The Application of the principles:

Site



Local

Parish



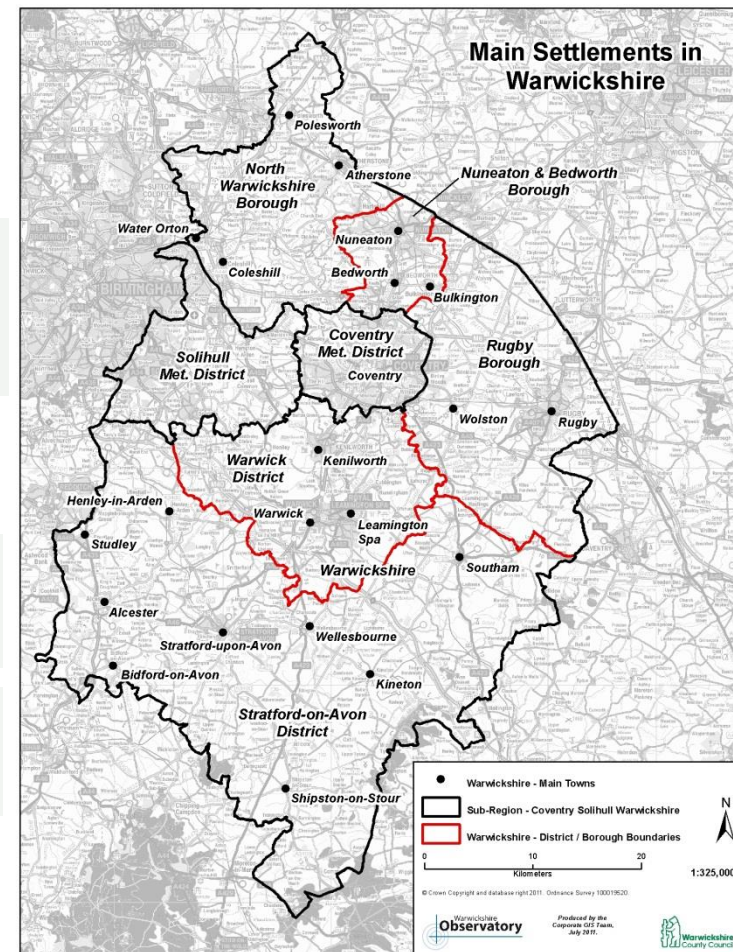
Authority Area



Sub-regional Area



Adopted in December 2013



GREEN INFRASTRUCTURE 2009 - 2013

## Embedded into all Core Strategies as a...

### **Sub-regional GI Strategy** (about to go to consultation)

#### **PART A – STRATEGIC CONTEXT**

This part will be 'static'; providing the background and reasoning as to why sub-regional GI Assets are important.

#### **PART B - ASSESSMENTS and RECOMENDATIONS**

This part will be 'semi-static'; detailing methods as to how sub-regional GI Assets have been identified and governance models for delivery. This part will only be altered through partner agreement.

#### **PART C - ASSETS and MAPS**

This part will be 'living'; showing the location of sub-regional GI Assets as they are now and as they change over time.

**NB Covers:** Landscape, Accessibility and Biodiversity

## GREEN INFRASTRUCTURE 2009 - 2013

# Biodiversity – Part B

## Biodiversity Core Areas

Woodland; Grassland; and Wetlands habitats have been mapped to identify Biodiversity Core Areas

Woodland & Grassland – 1km<sup>2</sup>  
Wetland – Species specific (GCNs)

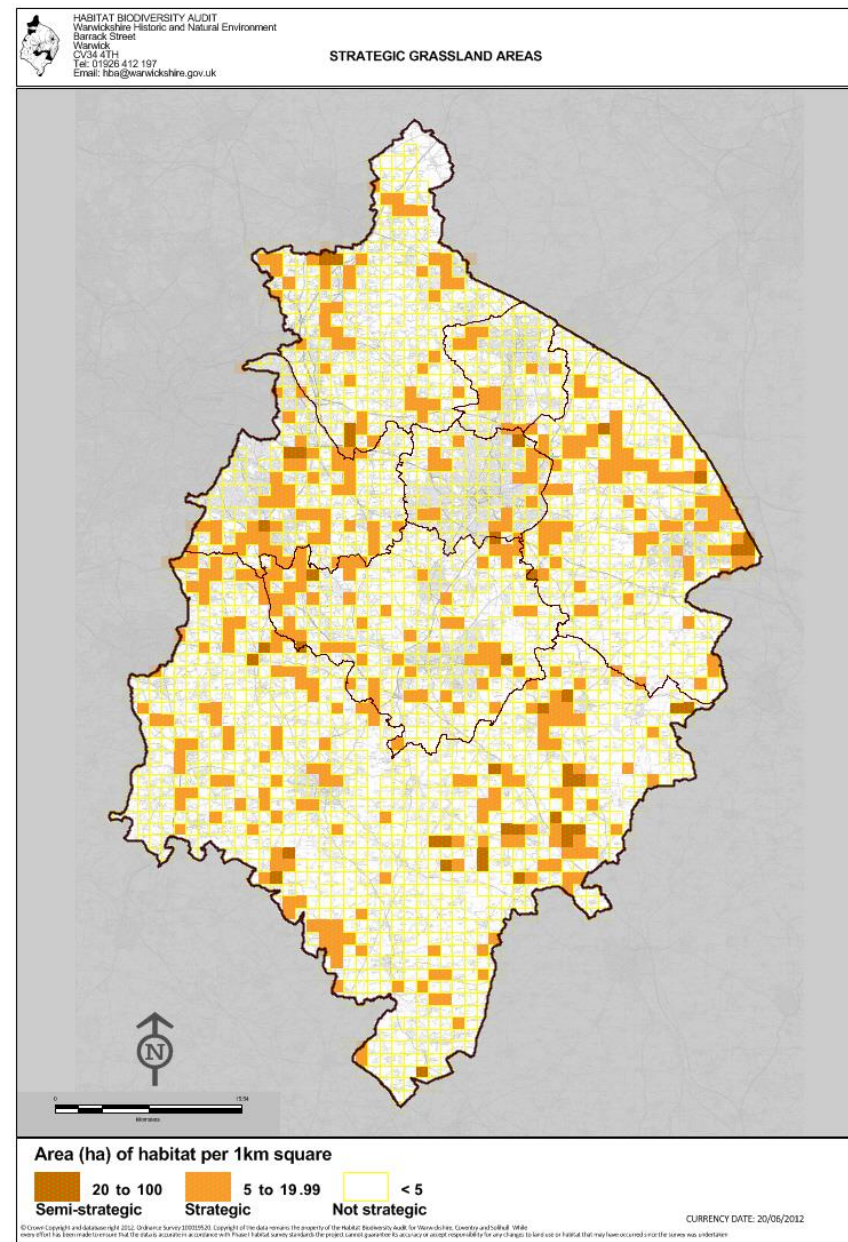
**Core Area = 20%+ in 1km<sup>2</sup>.**

## Biodiversity Offsetting Strategy:

Strategic Area = 5% to 19% in 1km<sup>2</sup>

Semi-Strategic Area = >20% in 1km<sup>2</sup>

Non Strategic Area = <5% in 1km<sup>2</sup>

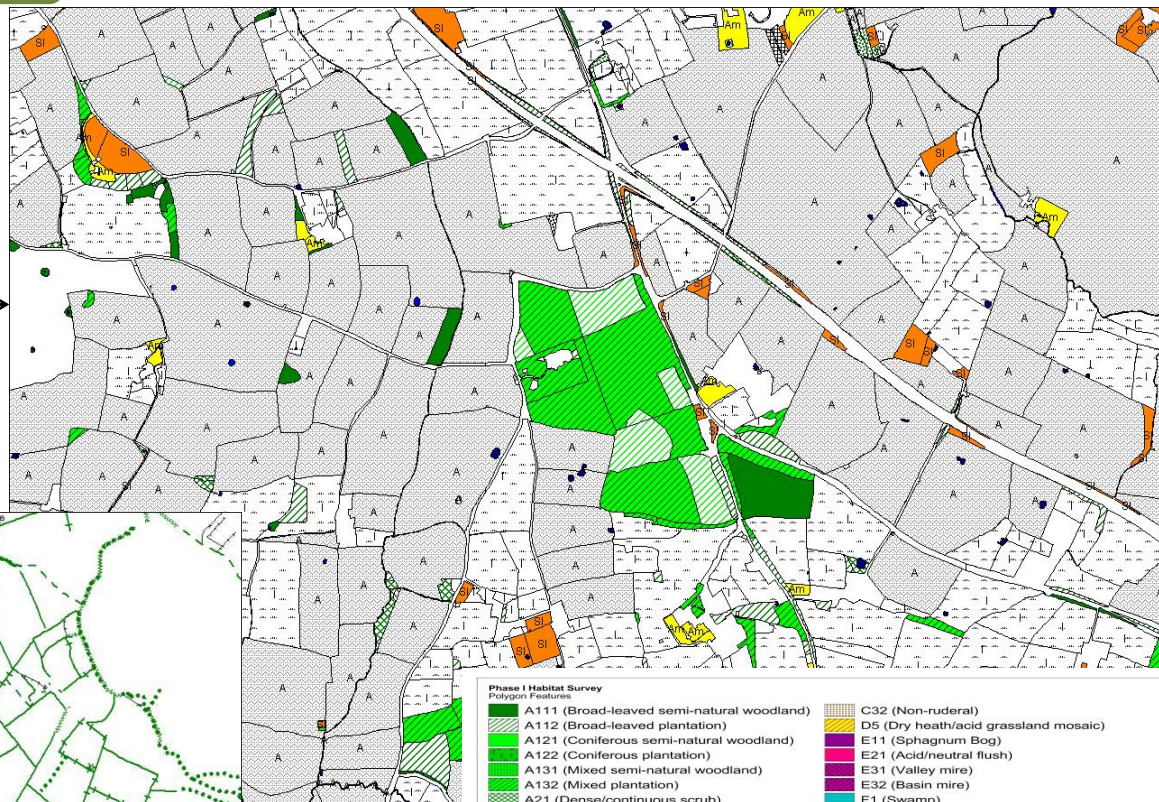




## GREEN INFRASTRUCTURE 2009 - 2013

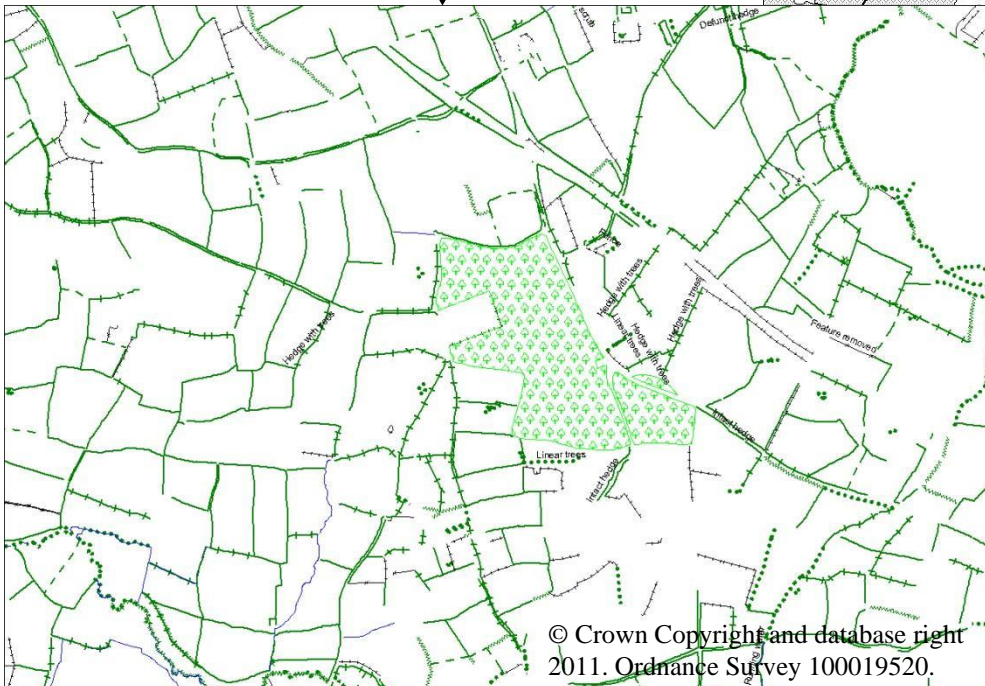
# Phase 1 Habitat Data

Phase 1 - Polygon

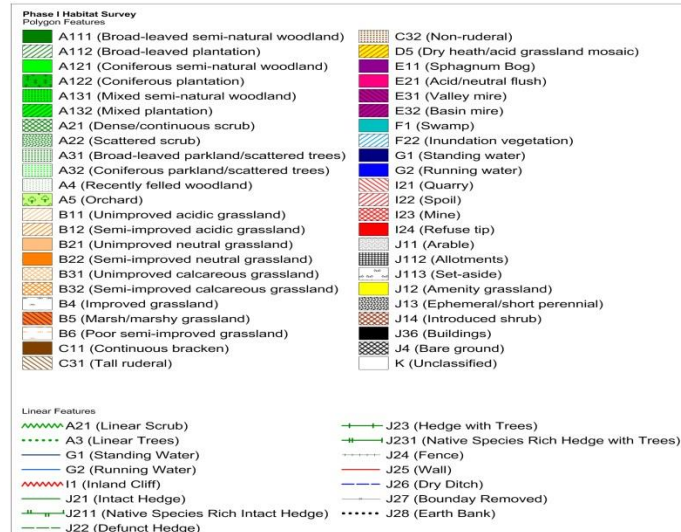


20% resurveyed annually

Phase 1 - Linear

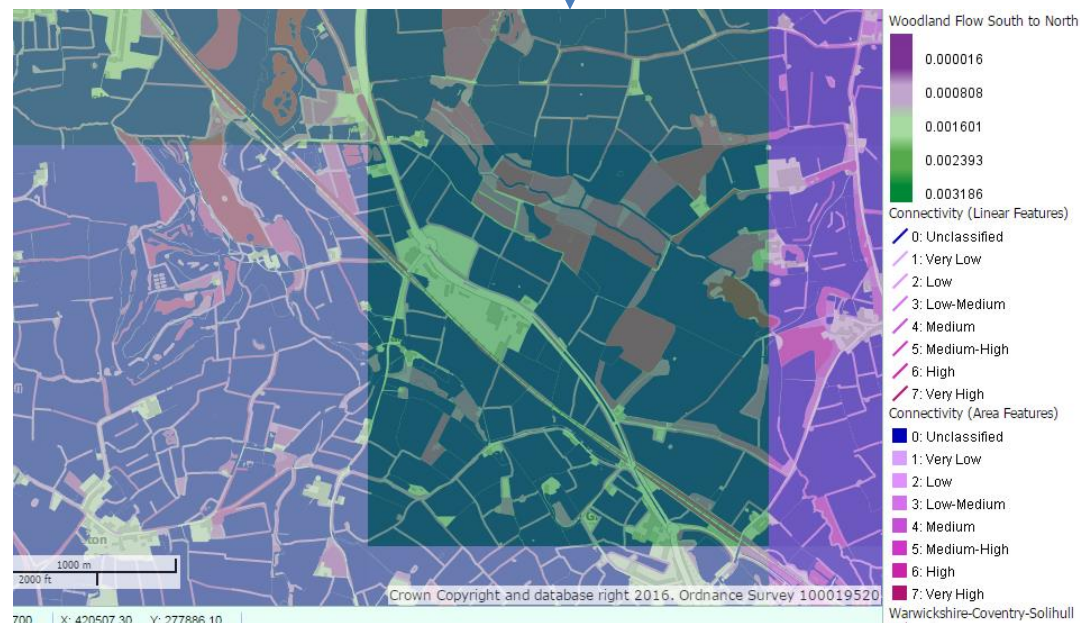
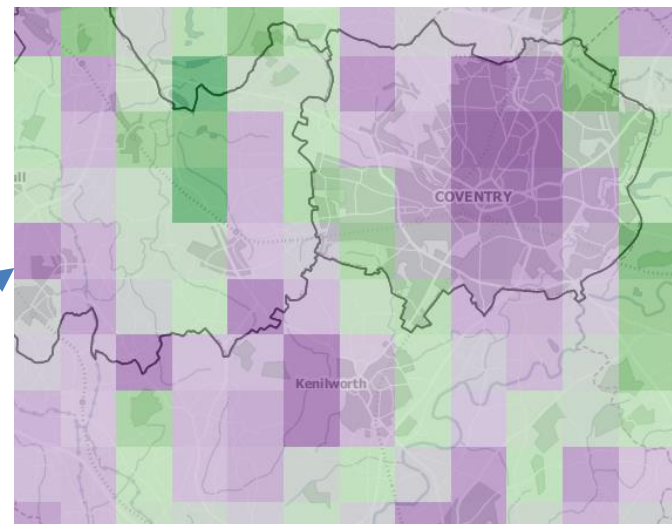
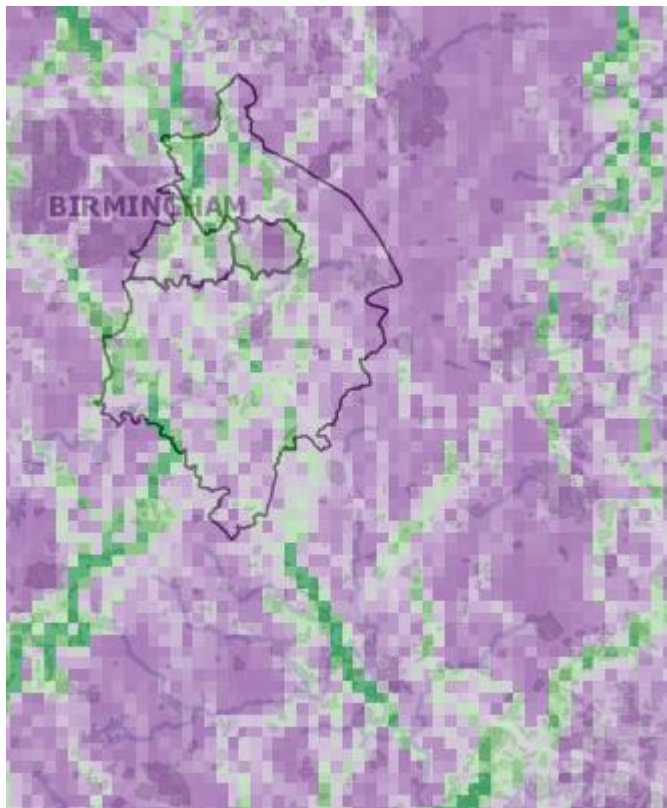


Habitat  
Biodiversity  
Audit





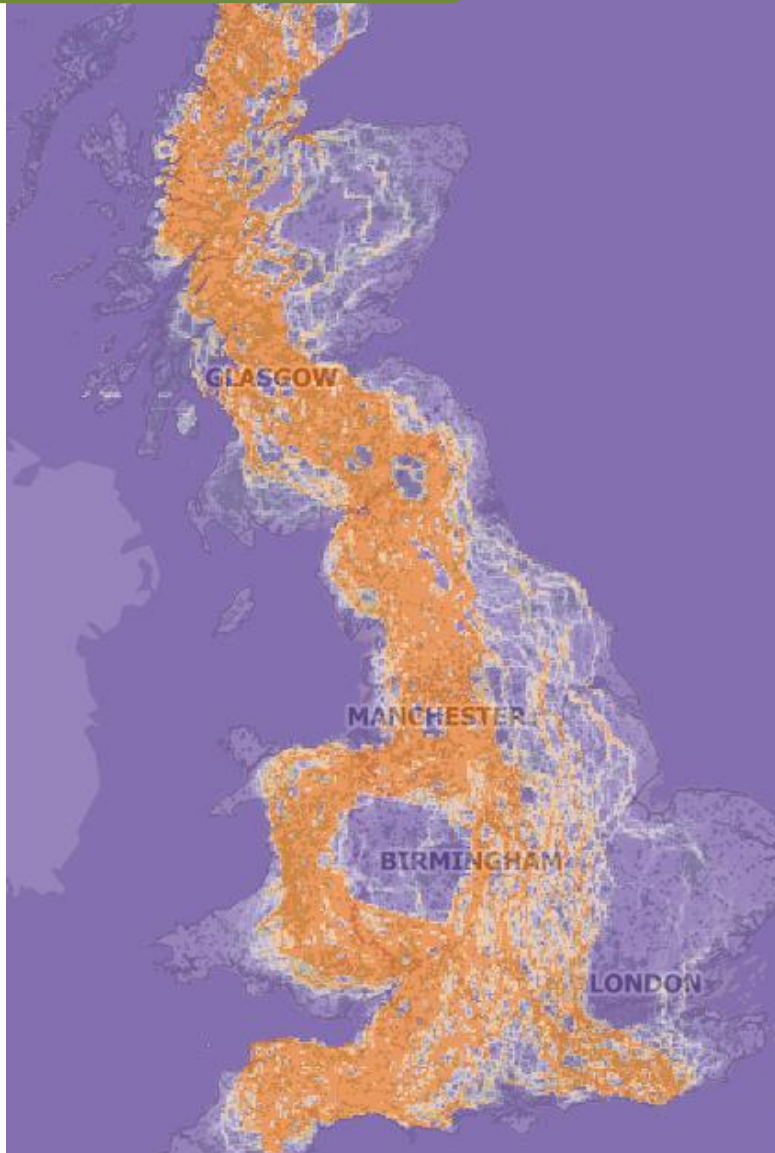
## GREEN INFRASTRUCTURE 2009 - 2013



Every decision has a site, local, regional and national implication

## GREEN INFRASTRUCTURE 2009 - 2013

# CONDATIS



South – North Grassland species Flow



South – North Woodland species Flow



## GREEN INFRASTRUCTURE 2009 - 2013

### North Warwickshire Borough Council (2012)

#### NW13 Green Infrastructure

Throughout the Borough a comprehensive network of high quality, multi-functional, green spaces, corridors and other environmental features will be maintained, enhanced and created for flora, fauna and humans, which link into the sub-regional green infrastructure networks.

Development proposals must demonstrate how they contribute to maintaining and enhancing a comprehensive and strategically planned green

#### NW12 Nature Conservation

Sites of Special Scientific Interest (SSSI's) will be subject to a high degree of protection, in view of their national importance. Development adversely affecting a SSSI will only be permitted where the benefits of the development at this sites clearly outweigh the likely impacts on the site and any broader impacts on the national network of SSSI's.

Development that damages habitats and features of regional or local importance for nature conservation will only be permitted where there are no alternatives to the development taking place in that location. Where appropriate, developments will be required to help secure the beneficial management of such features.

Development should help ensure that there is no net loss of biodiversity and geological interest, and where appropriate contributions will be sought to ensure the enhancement of biodiversity, geological and other natural features in line with local, regional and national priorities for nature conservation.

With reference to the sub-regional local Green Infrastructure resource

in infrastructure assets;

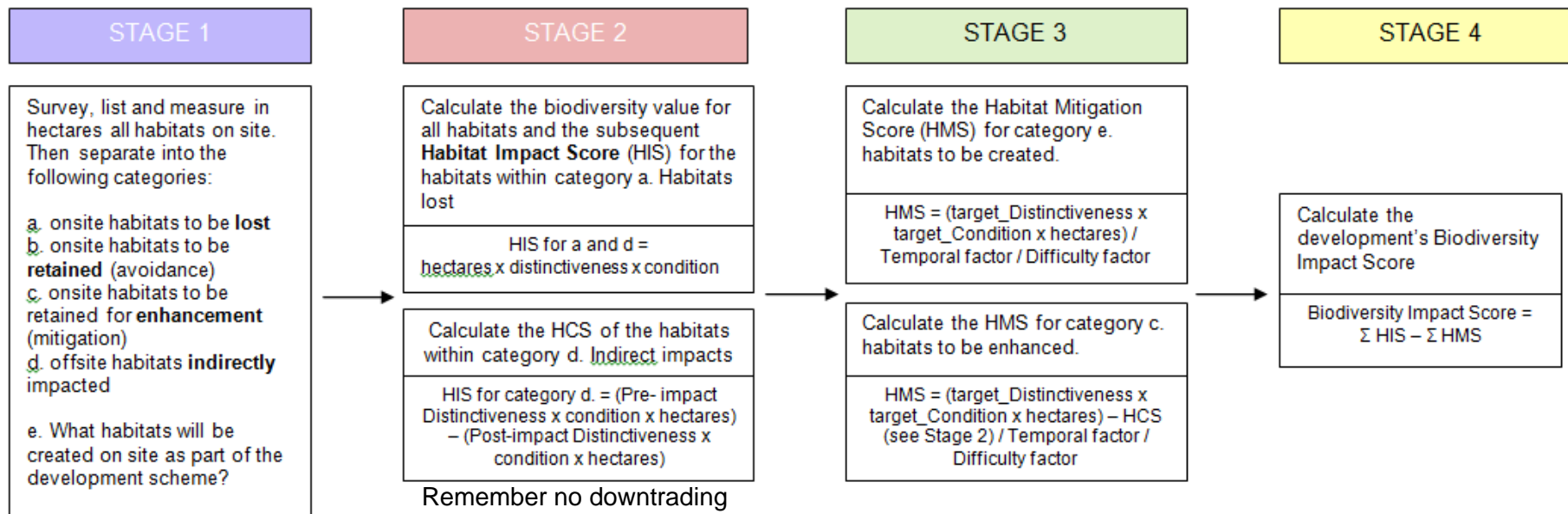
the links between existing green and to surrounding sub-regional

are assets where specific need has

be provided on site, or where an cted, contributions will be sought icts and improvements within the gion.



## DEFRA / NE PILOT 2012 - 2014



A x D x C

		Biodiversity distinctiveness		
		Low	Medium	High
Condition	Poor	2	4	6
	Moderate	4	8	12
	Good	6	12	18

Temporal Risk Factor

Years to Target Condition	Multiplier
5	1.2
10	1.4
15	1.7
20	2.0
25	2.4
30	2.8
32	3

Difficulty of Restoration/Creation Risk Factor

Difficulty of Restoration/ Creation	Multiplier
Very high/impossible	10
High	3
Medium	1.5
Low	1



DEFRA / NE PILOT 2012 - 2014

## Biodiversity Impact Assessment Summary Sheet....Vers.19.1

Habitat Impacts		Loss	Gain	Impact	%age losses	Compensatory Unit loss	Indicative Offset (ha)	WCC Offset units	WCC Indicative Offset Contribution	Warwickshire County Council is currently  <b>Great Crested Newt Compensation</b>
Woodland Habitat		9.00	5.08	-3.92	39.60	-4.49	10.48	-4.49	£190,518	
Grassland Habitat		3.50	3.64	0.14						
Wetland Habitat		6.00	2.97	-3.03	30.61	-3.47	3.69	-6.85	£617,845	
Other Habitat (incl. Built Env)		4.40	1.45	-2.95	29.80	-3.38	Transferred to Wetland			
<b>Total</b>		22.90	13.14	-9.76	100.01	-11.34	14.17	-11.34	<b>£808,363</b>	
			Trading down	-1.59						
				-11.35						

Hedgerow Impacts		Loss	Gain	Trading down	Impact	Unit loss	Indicative Offset (km)	WCC Offset units	WCC Offset Contribution
Hedgerow		18.40	15.10	-1.80	-5.10	-5.10	0.93	-5.10	£564,383

Waterbodies (Breeding Habitat)					Terrestrial (feeding habitat)		Total Scores	
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Great Crested Newts Impacts		No. of Waterbodies	Total area of standing water	No. of Connected Waterbodies	Total area of Connected Waterbodies	Carrying capacity of functioning Waterbodies	Available Area to GCNs	Carrying Capacity Score	Estimated GCN population	supportable Population Class	Water Body Offset required (ha)	Terrestrial Habitat Offset required (ha)
Existing Habitat		3	0.57	3	0.57	228	8.51	1802	2030	Medium		
Future Habitat		2	0.47	0	0.00	0	9.02	2525	2525	Medium	4.56	None

The Warwickshire BIA provides an indicative cost for offsetting. This enables an applicant to make decisions to either further 'green' a develop to reduce the contribution, accept the cost and/or absorb the cost into any existing or future land cost negotiations. The applicant's ecological consultants can assist in these decisions... not the LA Ecologists.

**Note** the above is an hypothetical example taken from the Warwickshire County Council draft GCN integrated Defra Net Gain metric. It therefore shows habitat and newt offset cost calculations.



DEFRA / NE PILOT 2012 - 2014

## Warwickshire BIA – Summary Sheet

Habitat Impacts	Loss	Gain	Impact	%age losses	Compensatory Unit loss	Indicative Offset (ha)	WCC Offset units	WCC Indicative Offset Contribution	Warwickshire County Council is currently transferring 'Other' habitat loss to Wetland Creation
Woodland Habitat	0.00	23.98	23.98						
Grassland Habitat	9.78	48.57	38.79						
Wetland Habitat	0.00	5.77	5.77				-3.23	£131,672	
Other Habitat (incl. Built Env)	88.55	16.78	-71.77	100.00	-3.23	Transferred to Wetland			
<b>Total</b>	98.33	95.10	-3.23	100.00	-3.23	0.00	-3.23	<b>£131,672</b>	
		Trading down	0.00						
			-3.23						
Hedgerow Impacts	Loss	Gain	Trading down	Impact	Unit loss	Indicative Offset (km)	WCC Offset units	WCC Offset Contribution	
Hedgerow	0.00	0.00		0.00					

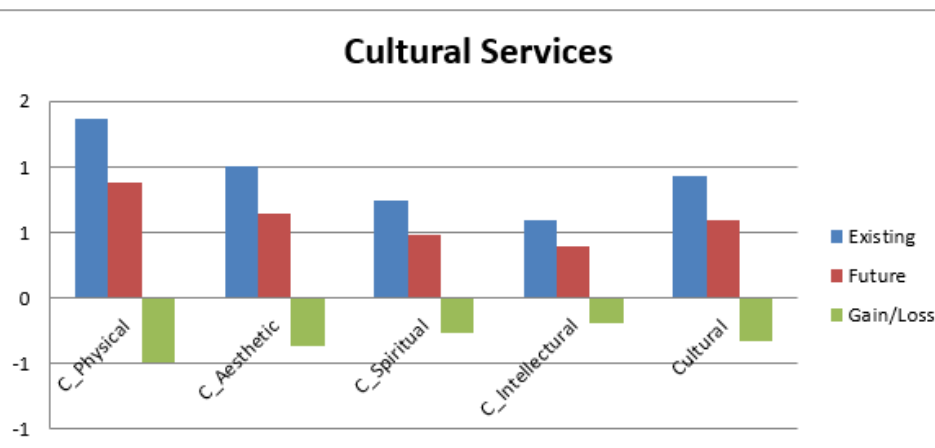
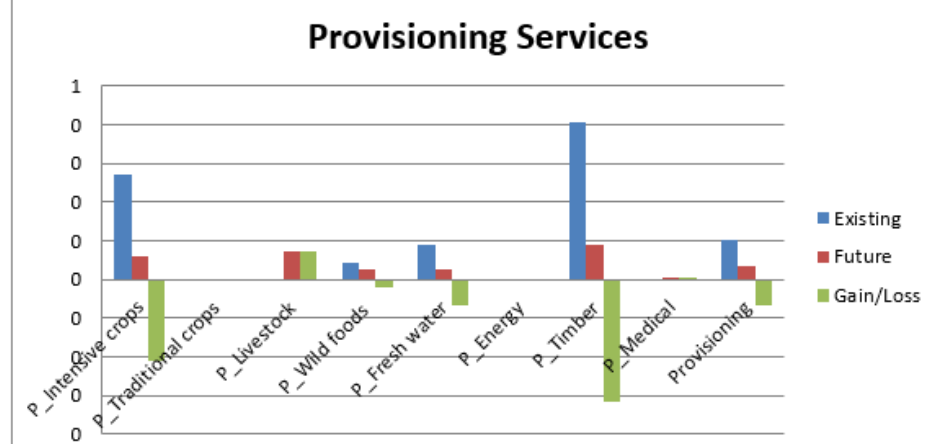
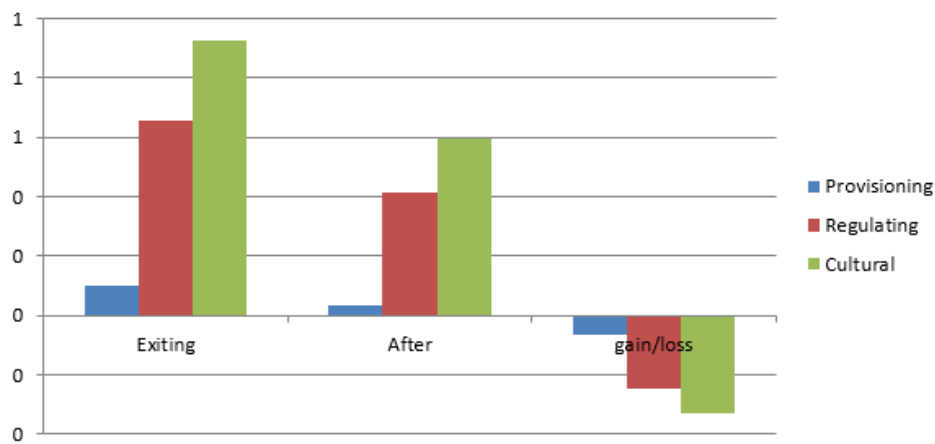
Provides an indicative cost of the Financial Contribution that Warwickshire County Council is likely to ask for.

- Viability Assessment?
- Layout options
- Discussions between Landscape Architect / Ecologists and clients as well as Local Authority.

DEFRA / NE PILOT 2012 - 2014

## Warwickshire BIA – Summary Sheet

### ECOSYSTEM SERVICES ANALYSIS



Implementation 2012+

## Developer Options

- **Developers have to identify an offset site prior to commencement of works**
  - Do it themselves (within a wider landholding?)
  - Go to a broker
- **Developers can pay a financial contribution to Warwickshire County Council and we will find a site**
  - Enables quick starts

**Delivered through an obligation (s106) or condition (not preferred)**

Can cater for

- Full application
- Outline applications
- Multi-phased applications

## Single Payment or Staggered Payments



## Implementation 2012+

First Public Inquiry test case (APP/E3715/V/12/2179915: APPLICATION BY WILLIAM KENDRICK & SONS LIMITED – LAND AT STRETTON CROFT, BURBAGE LE10 3JB (August 2013)

“The Secretary of State agrees with the Inspector that the proposal, together with the proposed ecological mitigation, would comply with the policies in the Framework, particularly in relation to protected species and to biodiversity interests within the wider environment; and that it would provide a significant benefit in nature conservation terms (IR8.77).”

“Although there would remain some biodiversity loss, this could be compensated for through a biodiversity offsetting scheme in accordance with the principles set out in the NPPF. Mr Lowe, WCC Principal Ecologist, **has undertaken the work to evaluate the level of offsetting required, and this would be delivered within the RBC area funded by a payment from the Applicant** through the unilateral undertaking. Mr Lowe confirms that with the biodiversity offsetting funded by this scheme there would be a net gain in biodiversity.” Paragraph 8.77 states “**Overall, I conclude ... that the proposal, together with the proposed ecological mitigation, would comply with Government policies in the NPPF particularly in relation to protected species and to biodiversity interests within the wider environment.**”

“The Secretary of State also agrees with the Inspector’s reasoning and conclusions on the S106 planning obligation (IR8.80-8.81). **He agrees with the Inspector that all of the provisions of the S106 planning obligation are necessary to make the development acceptable in planning terms**, directly related to the development, and fairly and reasonably related in scale and kind to the development; and can therefore be regarded as complying with Regulation 122 of the CIL Regulations, Policy CS10 of the RBCCS, and paragraph 204 of the Framework (IR8.81).”

“The planning obligation was discussed in detail at the Inquiry. The LPA considers the planning obligation is required in relation to the **biodiversity offsetting (a) necessary to make the development acceptable in planning terms; (b) directly related to the development and (c) fairly and reasonably related in scale and kind to the development ...** From all the evidence that is before me I consider that all of the provisions of the S106 planning obligation are necessary. They meet the 3 tests of Regulation 122 of the CIL Regulations 2010, Policy CS10 of the RBCCS and paragraph 204 of the NPPF. I accord the S106 planning obligation significant weight and I have had regard to it as a material consideration in my conclusion.”

## Implementation 2012+

First S106 Contributions came in 2015/2016 and up to 2018/2019 secured a total of £2,252,787.81

To be allocated	£1,083,479.73	
Committed	£672,220.14	
Contribution due	£253,706.00	
Environment Bank Ltd	£243,381.94	estimate
		<b>£2,252,787.81</b>

Have enhanced / created

- 6 Grassland sites
- 1 Ancient Woodland site
- 4 Pond sites (ready for GCN strategy)
- 30+ sites in the pipeline

circa.  
40 ha

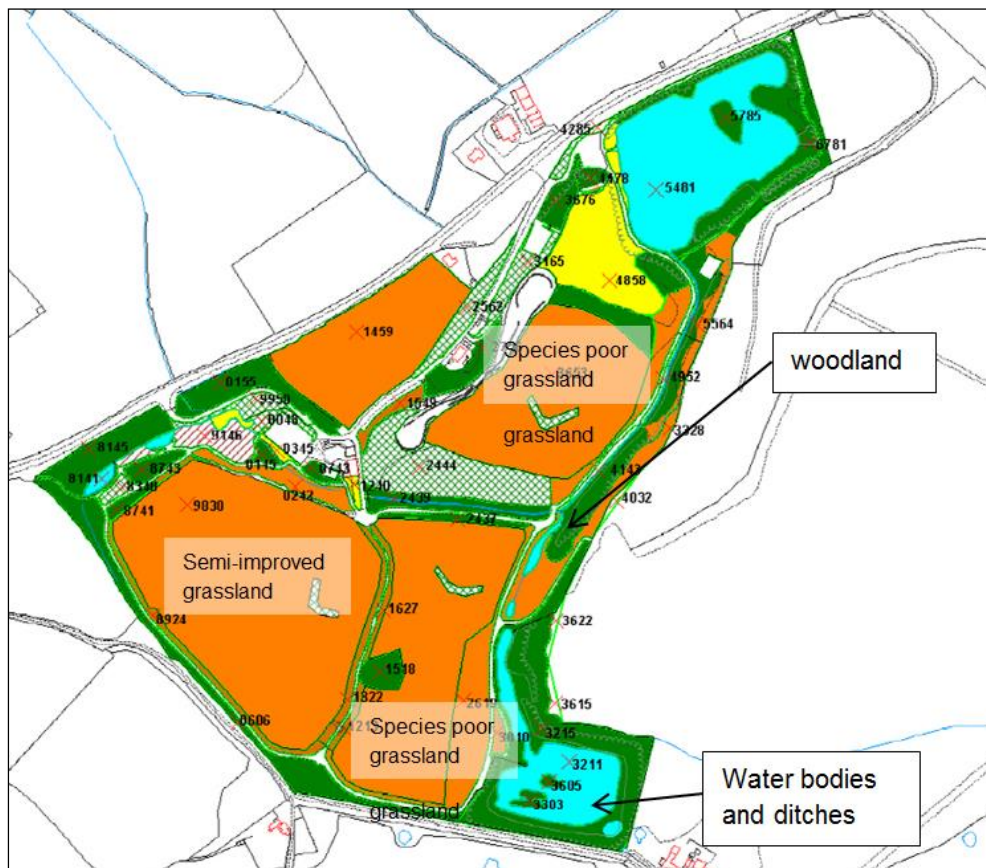
Implementation 2012+

## Case Study

### Existing Units

Existing biodiversity value of 4.1ha Species Poor Grassland = **8.2** units (4.1ha)

Existing biodiversity value of 10.4ha Poor Semi-improved Grassland = **41.6** units



### Potential Credits

To enhance the Species Poor Grassland to Semi-improved Grassland in 10 years would generate **5.86** credits gain.

To enhance the *species-poor* Semi-improved Grassland to *species-rich* Semi-improved Grassland in 10 years would generate **9.90** credits gain

The Total Grassland units available on the site = **15.76** credits



Implementation 2012+

## Section 39 Wildlife and Countryside Act Agreement

### CHERRY ORCHARD BRICKPIT ECOLOGICAL MANAGEMENT PLAN



Written by  
Helen Pearce BSc (Hons) ~~GradCIEEM~~  
February 2016

Ecological Services  
Economic Growth  
Communities  
Warwickshire County Council  
PO Box 43, Warwick CV34 4SX  
Tel: 01926 412088

(Name of landowner)

and

Warwickshire County Council

Management Agreement pursuant to Section 39 of the Wildlife and Countryside Act  
1981

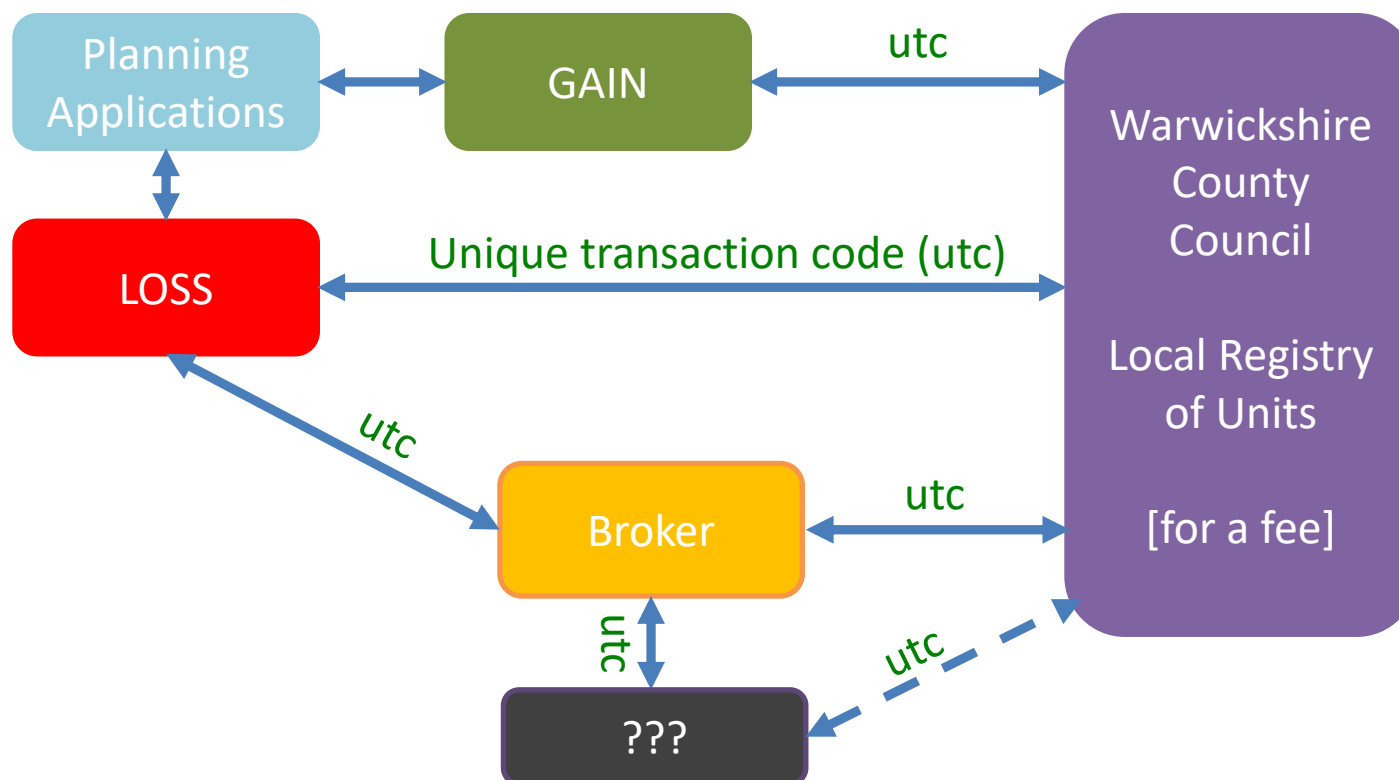
In relation to land at [address/description of land]

## Regulation

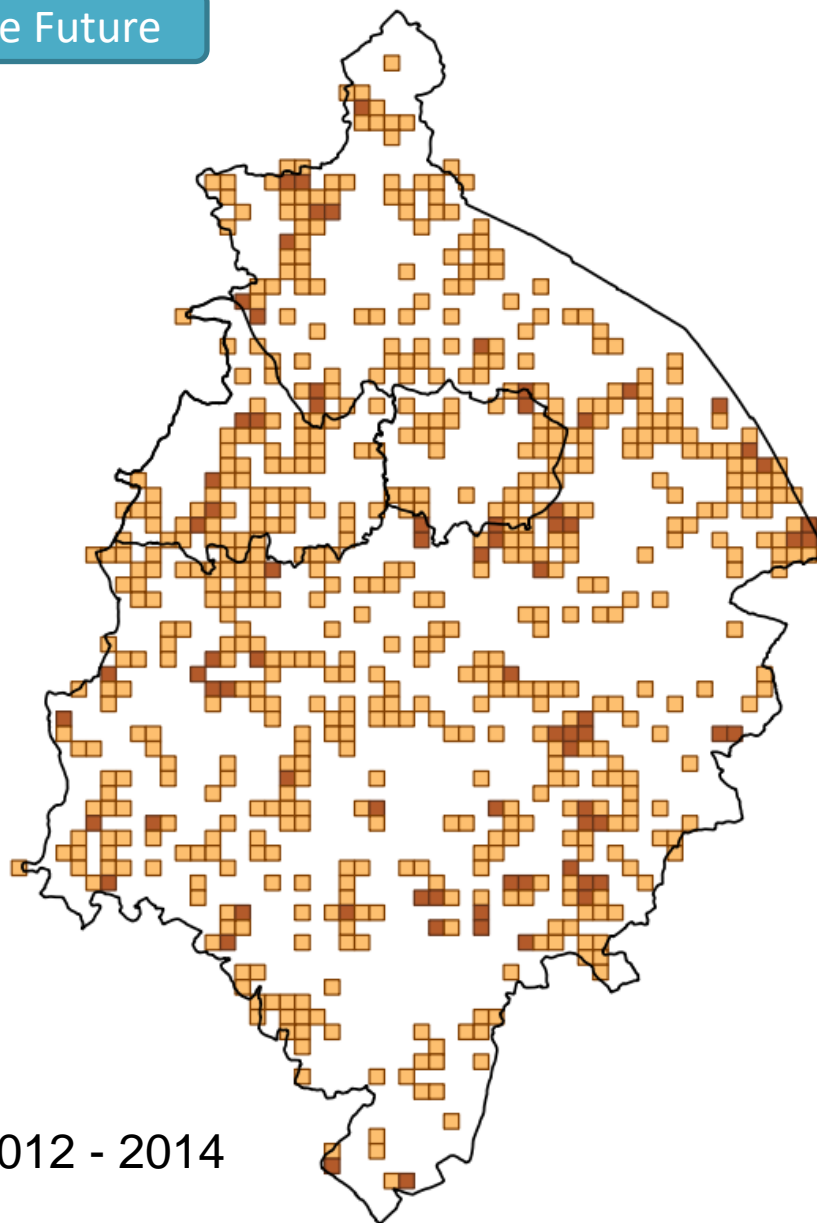
# The market is forming in Warwickshire:

## Brokers

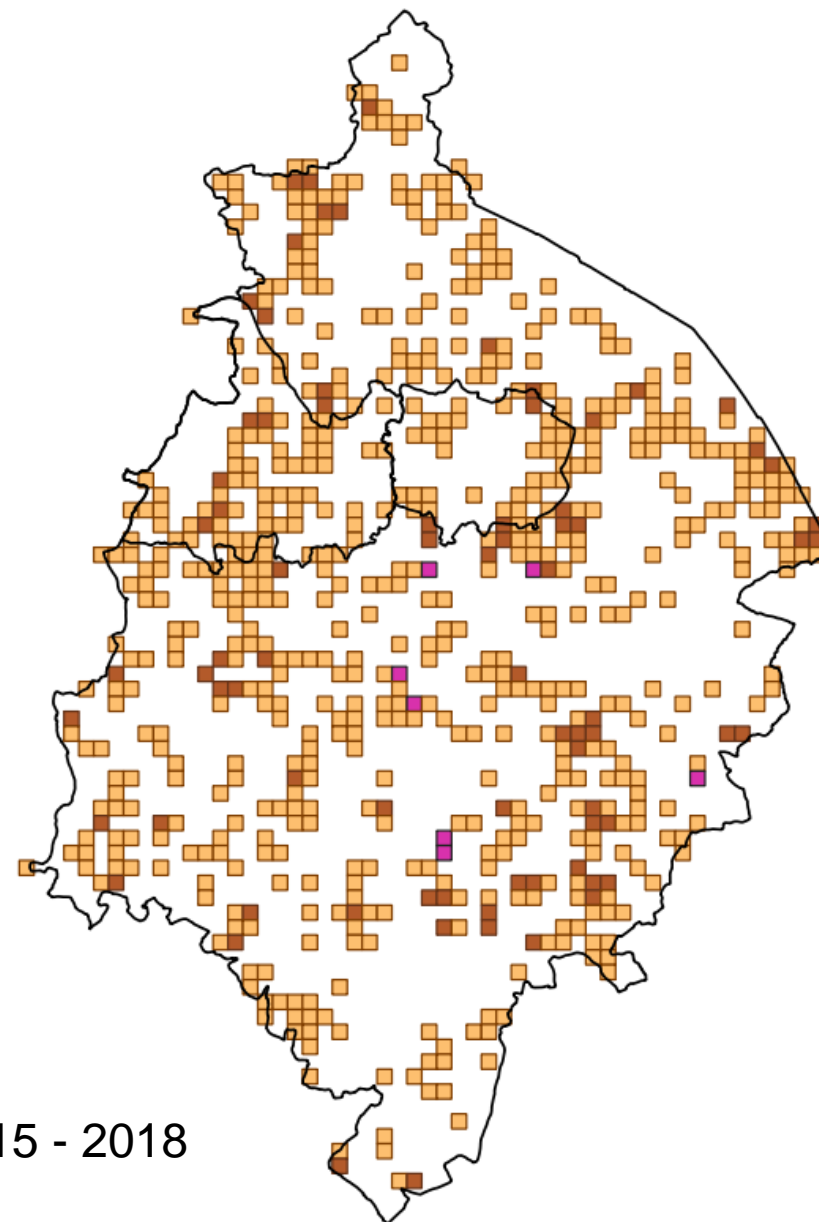
- Warwickshire County Council
- Environment Bank Ltd
- Individual Landowners / Land Agents



## The Future



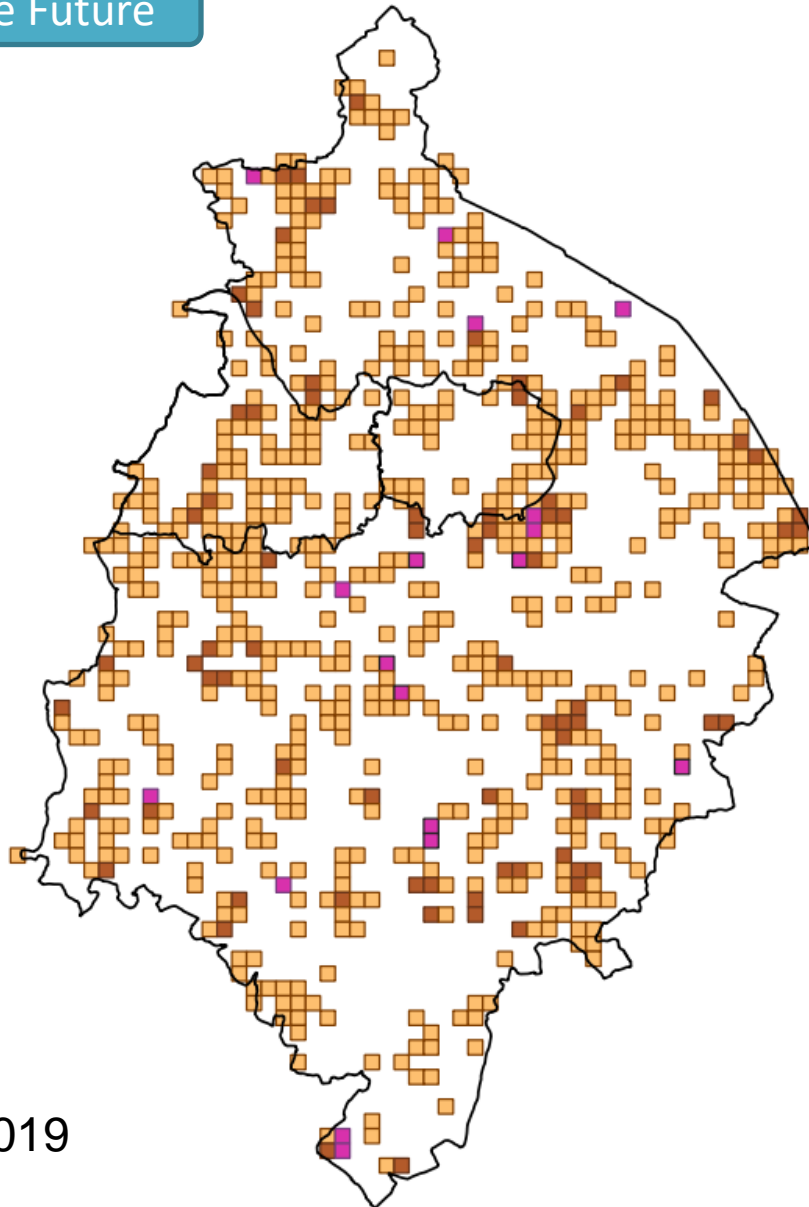
2012 - 2014



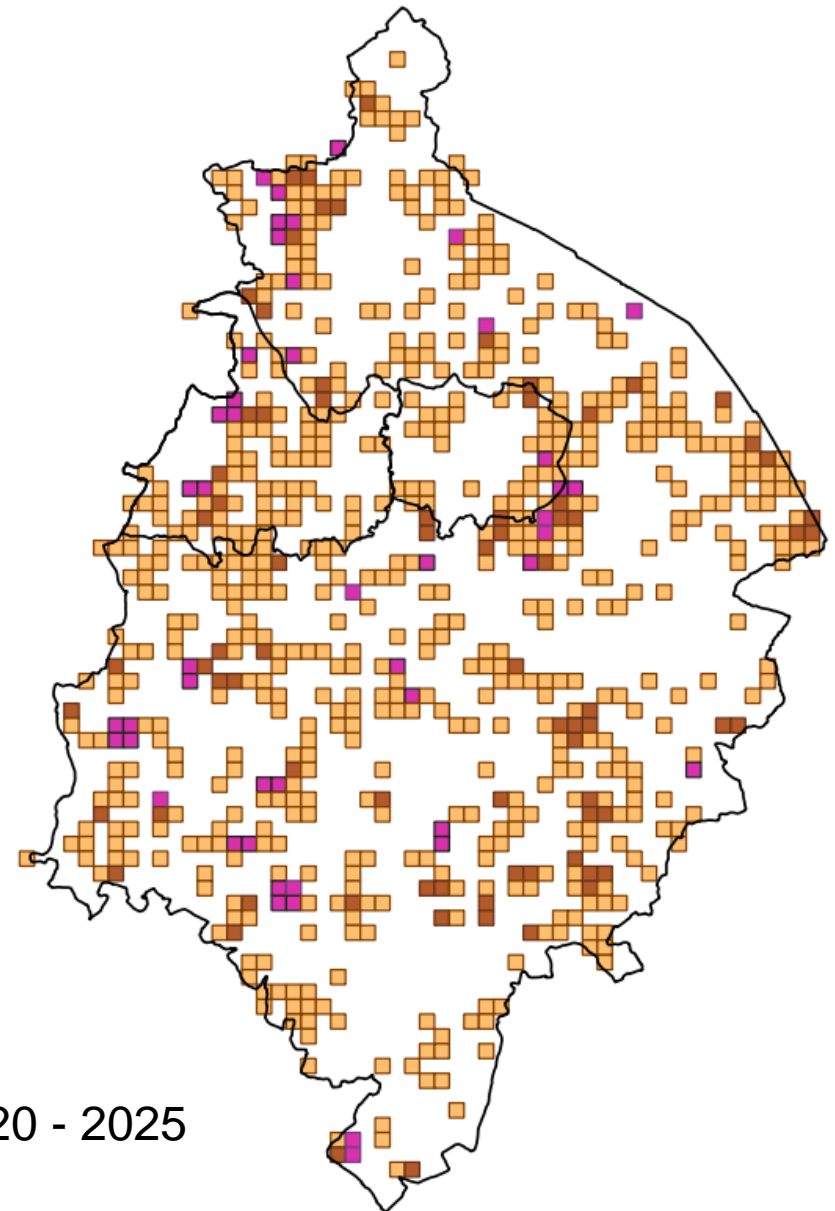
2015 - 2018



## The Future



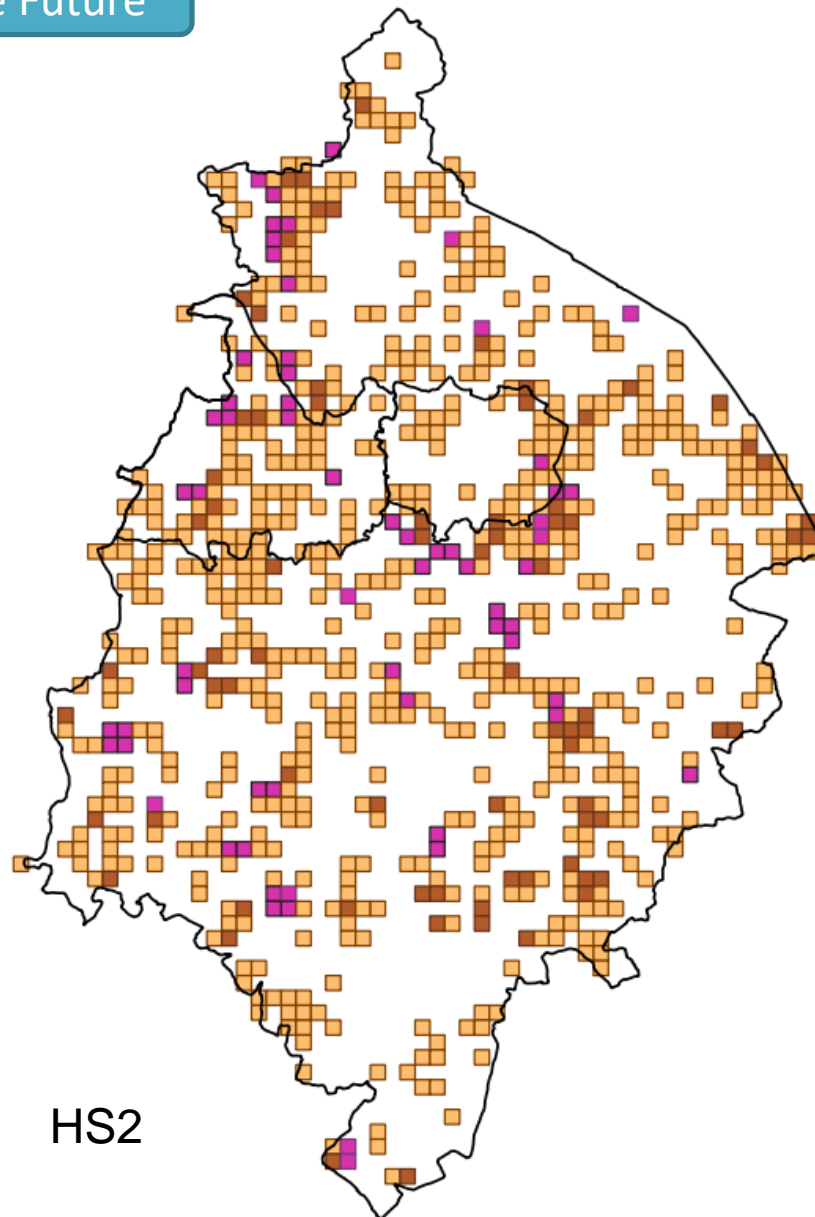
2019



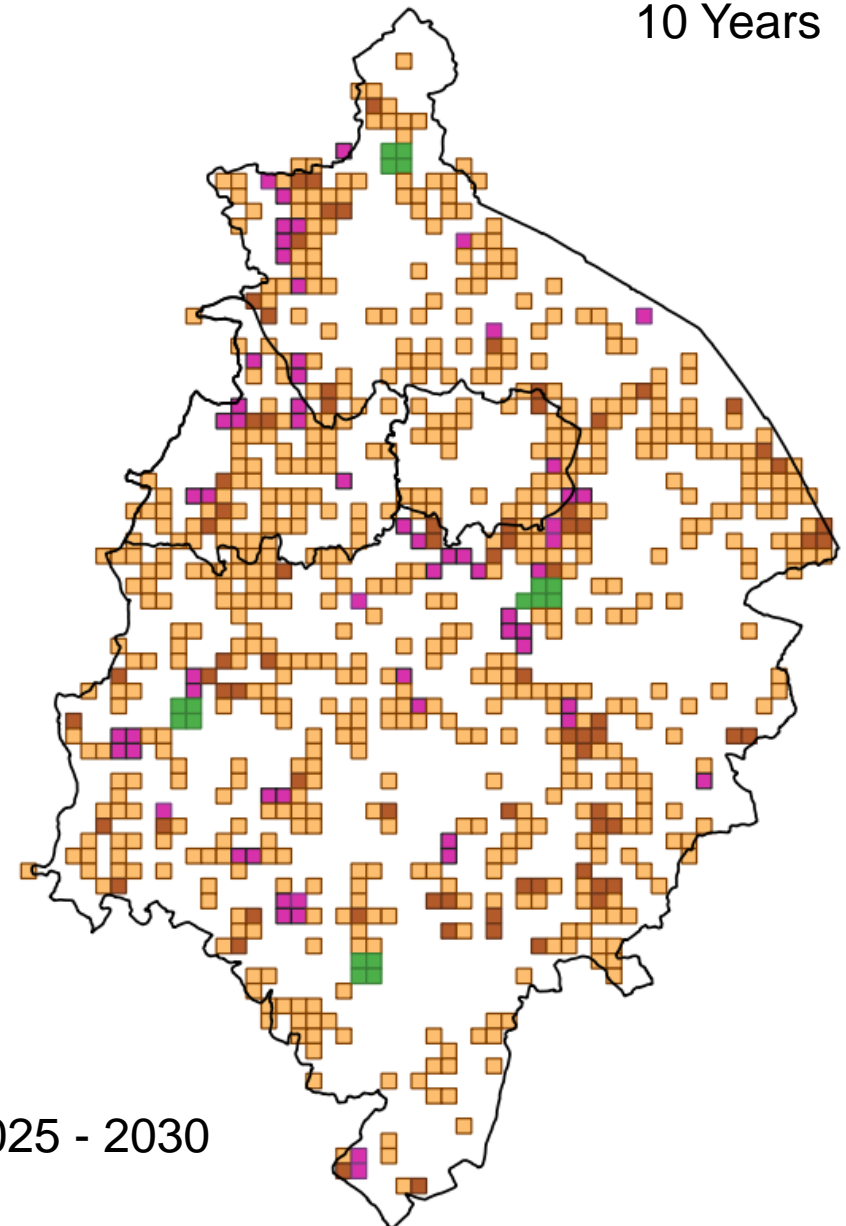
2020 - 2025

## The Future

10 Years



HS2

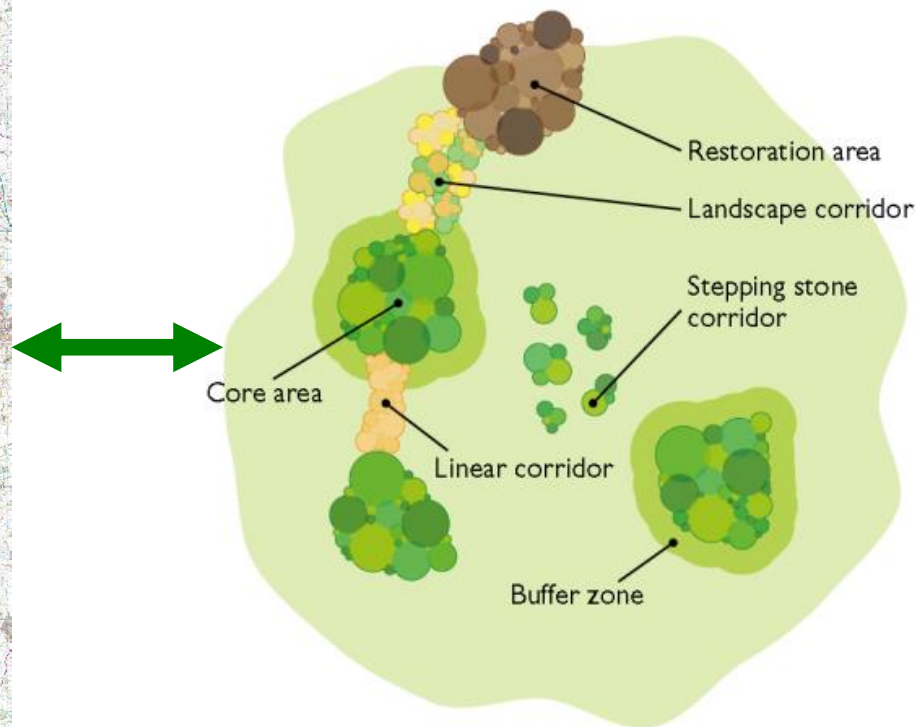
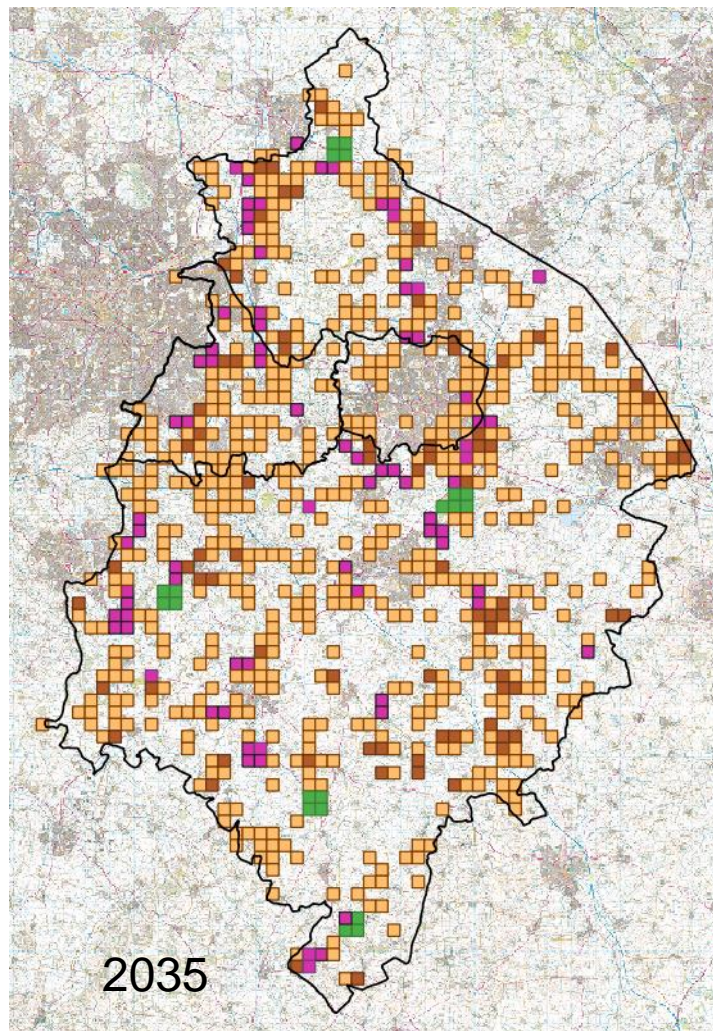


2025 - 2030

## Landscape Ecology

davidlowe@warwickshire.gov.uk

maps.warwickshire.gov.uk/greeninfrastructure



# MORE, BIGGER, BETTER and CONNECTED