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## **Biodiversity and Development**

Legal, Tax, Data and Planning — Practical Insights



Agenda

- 01 Biodiversity & Development in Wales & England by Stephen Sykes, Capital Law
- 02 Biodiversity & Data by Simon Boyle, Landmark Information Group
- 03 BNG & Taxation by Stephen Poole, Poole & Co
- 04 Baselining for Biodiversity by David Hancock, Laisters Planning
- **05** Q&A



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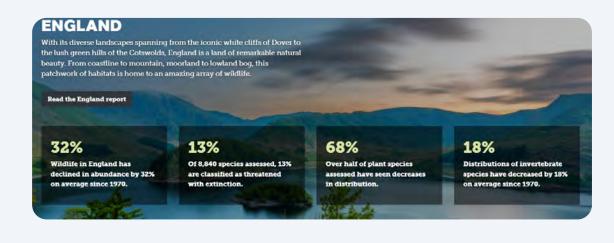
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### **Biodiversity and Development** in Wales & England

**Stephen Sykes** *Head of Climate, Environment and Sustainability* 



### **State of Nature Stats for England & Wales**





Since 1970 UK species have declined by about 19% on average.

Nearly 1 in 6 species (16.1%) are now threatened with extinction

https://stateofnature.org.uk/

### Very different approaches in England & Wales

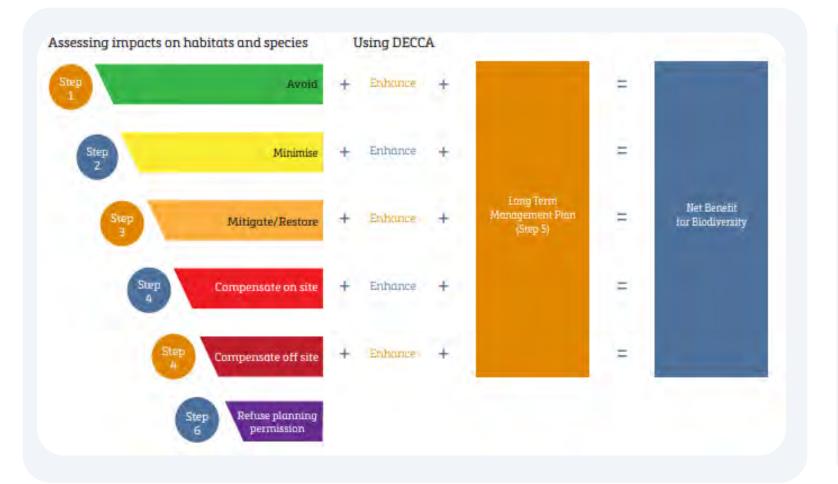
	England — BNG	Wales — NBB
Approach	<ul> <li>Quantitative — BNG Metric using Excel spreadsheet — minimum 10% improvement in biodiversity</li> <li>Market-driven — mandatory demand for BNG &amp; mandatory planning condition for BNG</li> <li>Heavily regulated — 6 sets of supporting regulations</li> </ul>	Qualitative — significant betterment No market for sale of BNG units or provision for BNG credits Flexible – too flexible?
Off Site Solutions	Improve off site land (could be miles away) or buy BNG Credits (expensive)	Improve neighbouring land only

### **Biodiversity & Development in Wales** — Net Biodiversity Benefit

- Development to leave biodiversity and resilience of ecosystems in a *significantly better* state than before
- ....through securing *immediate and long-term*, *measurable and demonstrable benefit*
- *primarily on or immediately adjacent to the site* (PPW, 6.4.5)



### **Step-Wise Approach in Wales**



Welsh planning authorities must follow a **step-wise approach** to.....deliver **net benefits....**adverse environmental effects are: firstly *avoided then minimised, mitigated, and as a last resort compensated for* (PPW, 6.4.11)

## The Cardiff Parkway Decision 30/1/2025 — *NBB in Practice*

#### Rumney and Peterstone SSSI lies alongside the Severn Estuary

- Landscape is man made, reclaimed from sea over 2000 years
- Land below high mean water level sea
- Largest drainage system in Wales system of shallow trenches draining into ditches
- 164 recorded species of insects and other invertebrates in the ditches



## The Cardiff Parkway Decision 30/1/2025 — *NBB in Practice*

- First Minister **approves application** for planning for new station and business park
- Applies DECCA **step-wise** approach
- On-site measures sufficient to mitigate and compensate for this loss
- Plan to replace 3.9km lost from development includes with 4.4km of new ditches to (Note 10% increase in biodiversity)
- "Wholly exceptional circumstances" justify loss of 8% of SSSI and destroy the Marshfield Site of Importance for Nature Conservation



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### **Biodiversity & Data**

Simon Boyle Landmark Information Group



**Complex Data Landscape** 

## Natural systems are interconnected

- need intelligent use of data

### Data is siloed





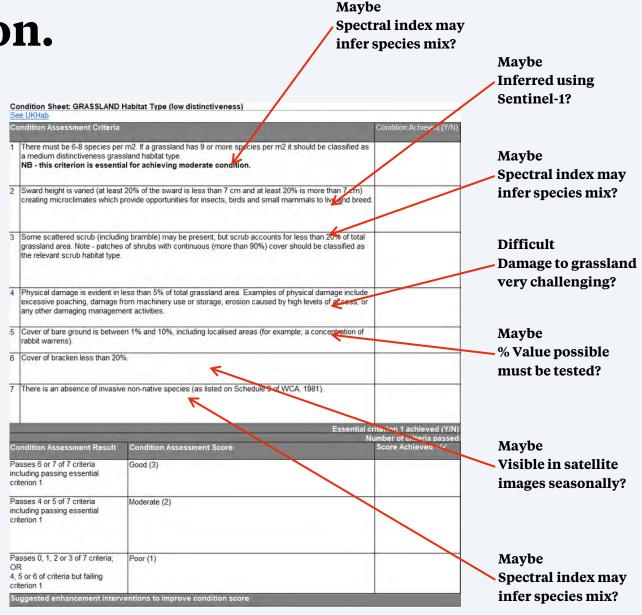
Map Impact Habitat Layer 2023

### The importance of Condition.

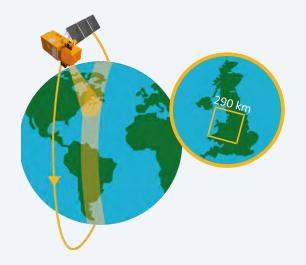
Habitat units per hectare	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Grass					1			1	4				1		11				1	1	1 li	$1 r^{1}$			_
Meadow				-		1		1											5						
Calcareous grassland					1									T							111	11			-
Other neutral											~			t litz		1			1	ΙĒ,	ΠÌ.	ÌΠ,			
Modified	-	-		-	1									-	-	-	+	-	-	-				-	-
Crops	i.				1					1										ł					_
Wetland	ŧ.							i i												1	i		-		-
Bogs, fens, mire etc																	ř.								
Reed beds		+	-	-					-	1	Y	-	Y.	Y	T	4	7	1					-		-
Woodland									-			1													
Wood pasture and parkland							1											-		1		0	0		
Specific species				-									-				Y								
Other broadleaf										1	14									1	1.1				
Other conifer				T	1					_		-	-	1	-		+	-	-				-		-
Urban	1																								
Cemeteries and churchyards						-											-				1.11	-			
Derelict land and allotments																									
Sandpit or open cast mine																					1	1			
Developed sealed land				_		-		1111					1.1								111				

## **Complexity of Condition.**

- Condition scoring is relevant to each habitat category
- 3 high level categories (Good (3), Moderate (2), Poor (1))
- Used as a multiplier to inform the overall BNG score



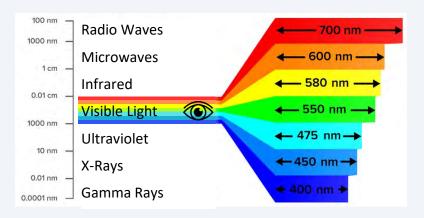
## Satellite Tech Opportunity



Sentinel-2

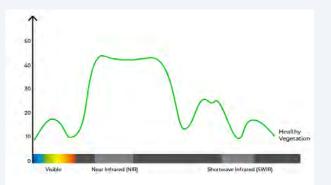
Worldwide, high-resolution, multi-spectral imagery

- 13 spectral bands
- 10 meters per pixel
- Every 5 days



#### **Red and Near Infrared**

Spectral properties are used to determine land use and various plant indices



#### **Vegetation characteristics**

Plant health and condition are measured with satellite indices, e.g. Normalized Difference Vegetation Index

### Site Solutions Biodiversity Report

# Sample Site Report Prepared for: Sample Site Report Reference: AEL-XXXX-CBH-XXXXXX Current use: Agricultural Report Author: Tessie Hendry

ESTIMATED BIODIVERSITY BASELINE UNITS





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Conveyancing Information Executive

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 Date:
 13 November 2023

 Proposed use:
 Development

**Client Reference:** 

Total units if existing habitats were improved to their maximum potential: 2454 (54% BNG opportunity)

Sample Site

#### Area habitats HABITATS IDENTIFIED (see page 5)

Numerous habitats of varying condition were identified across the Site. Notable habitats include Wood Pasture and Parkland (very high distinctiveness) and various Deciduous Woodland (high distinctiveness) of moderate and good condition.

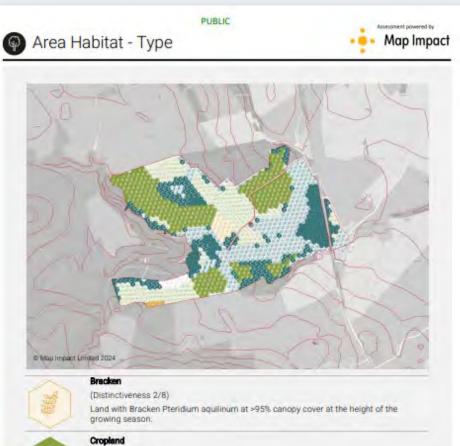
#### Linear habitats HABITATS IDENTIFIED (see page 8)

A review of recent aerial imagery indicates the presence of hedgerows on-Site. Ditches/drains and streams have been identified and measured on-Site.

#### Land based designations DESIGNATIONS IDENTIFIED (see page 12)

Bewick And Beanley Moors Site of Special Scientific Interest 25m west, and Ancient Woodland has been identified on-Site.

### Habitat





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(Distinctiveness 4/8) Regularly or recently cultivated agricultural, horticultural, and domestic habitats.

#### Lowland Mixed Deciduous Woodland

#### (Distinctiveness 6/8)

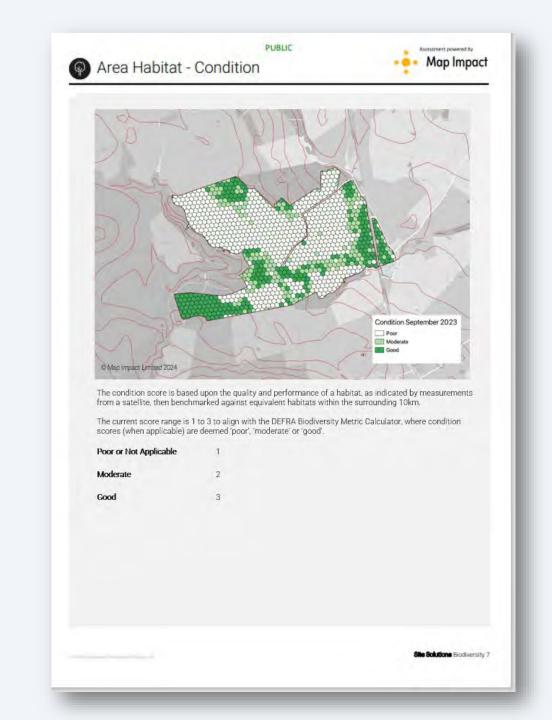
Lowland mixed deciduous woodland incudes woodland growing on the full range of soil conditions, from very acidic to base-rich, occurs largely within enclosed landscapes, usually on sites with well-defined boundaries, at relatively low altitudes, although altitude is not a defining feature.

#### Coniferous woodland

(Distinctiveness 4/8)

Vegetation dominated by trees that are more than 5m high when mature, which forms a distinct, although sometimes open canopy which has a cover greater than 20%, with stand of both native and non-native coniferous tree species.

### Condition

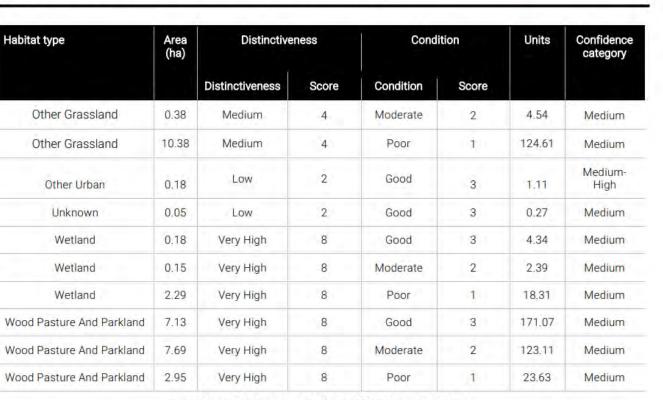


### Baseline Summary

Illustrative habitat v	alues						
Habitat type	Area (ha)	Distinctive	eness	Condi	tion	Units	Confidence category
		Distinctiveness	Score	Condition	Score		
Bracken	4.30	Low	2	Condition Assessment N/A	i	8.60	Medium- High
Coniferous Woodland	1.29	Medium	4	Good	3	15.53	Medium
Coniferous Woodland	1.14	Medium	4	Moderate	2	9.14	Medium
Coniferous Woodland	0.55	Medium	4	Poor	1	2.21	Medium
Cropland	53.31	Medium	4*	Condition Assessment N/A	1**	213.24	Medium
Heathland	0.68	High	6	Good	3	12.31	Medium- High
Heathland	0.01	High	6	Moderate	2	0.11	Medium- High
Lowland Mixed Deciduous Woodland	10.77	High	6	Good	3	193.86	Medium
Lowland Mixed Deciduous Woodland	13.77	High	6	Moderate	2	165.29	Medium
Lowland Mixed Deciduous Woodland	21.31	High	6	Poor	1	127.84	Medium
Modified Grassland	14.77	Low	2	Good	3	88.64	Medium
Modified Grassland	5.67	Low	2	Moderate	2	22.66	Medium



#### Area Habitat - Baseline Summary



PUBLIC

Assessment powered by Map Impact

..

#### TOTAL ESTIMATED AREA HABITAT BASELINE UNITS: 1576

\*As stated within the methodology section at the back of this report, available open-source data does not allow all habitats to be represented. As such, where specific habitat types are grouped under a broad habitat (i.e. the broad habitat 'cropland' comprises 10 specific habitat types), this is generally allocated the highest distinctiveness defined within that habitat group.

\*\*Under the statutory biodiversity metric a condition score is not applicable to cropland, and the condition score attributed of 1 does not in any way reflect upon the quality of husbandry.

## **BNG Compliance ongoing monitoring**

- May be annual
- Cost effective
- Objective
- Scalable
- Fast

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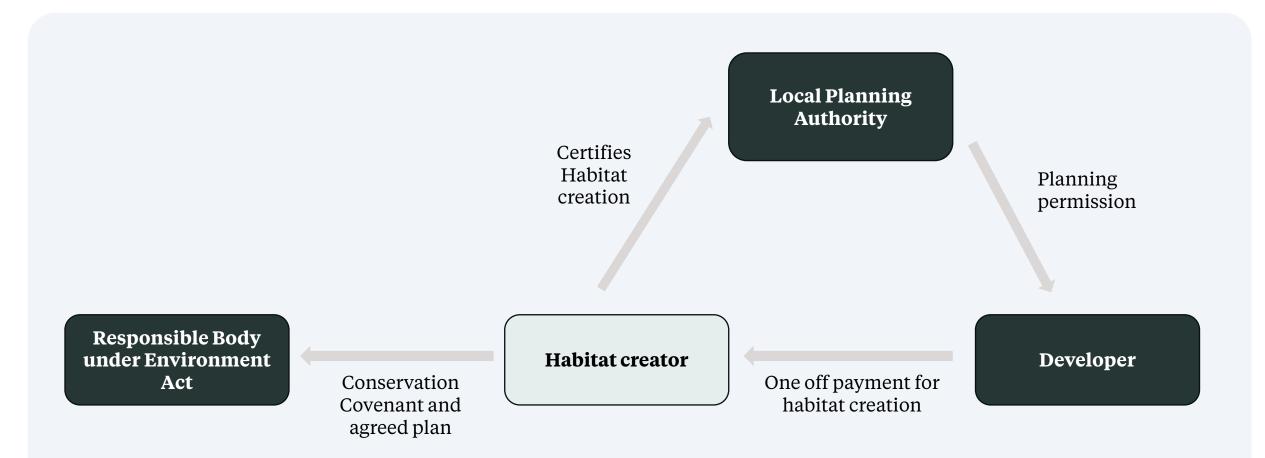
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### BNG & Taxation Looking at the numbers

**Stephen Poole** *Poole & Co* 



### **Contract structure**



## Habitat types

— Area

— Linear

- Hedgerow
- Watercourse
- Distinctiveness 0 to 8
- Condition 1 to 3
- Range of units per ha 0 to 24

## Area habitat examples

Habitat	Distinctiveness score	Units/ha From	Units/ha To
Lowland meadow	8	8	24
Modified grassland	2	2	6
Crops	2 or 4	Condition no	ot applicable
Cemeteries and churchyards	4	4	12
Sealed surface	0	0	0

## **Creation and enhancement multipliers**

	From	То
Difficulty	0.1	1.0
Time to target	0.3	1.0
Spatial risk	0.5	1.0
Strategic significance	1.0	1.15

## Example

The gross payment

Units per ha after multipliers Price per unit Total per ha

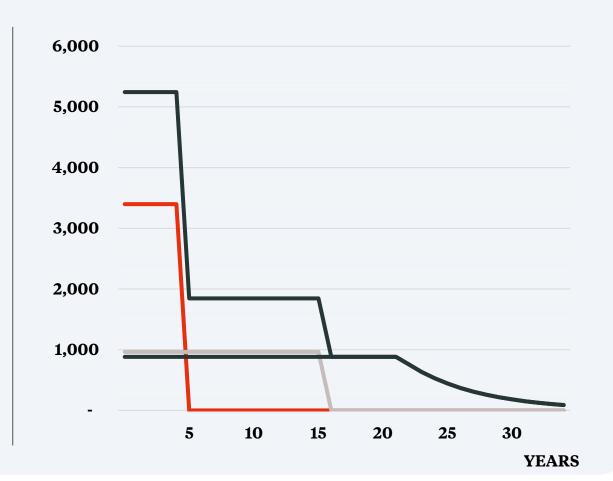
7 £25k

£175k



### **Example** — *direct costs*

- -20% to 30% total receipt
- Front loaded
- Escrow or trust arrangement
- Insurance based solutions



*—Establishment —Enhancement —Management —Total* 

## **Example** — gross profit

Unites per ha after multipliers	7
Price per unit	£25k
Total per ha	£175k
Costs — say	£60k
Gross profit	£115k
Over 30 years (ignoring inflation)	£4k
Farming	£1k to £4k
Energy plants	£50k+



## **Covenant, Stacking and Taxation**

#### Covenant

No inconsistent activity

### On failure to produce units or destruction of units:

- Purchase of units from the marketplace
- Not if:
  - HMMP complied with
  - Force Majeure
  - Compulsory purchase

#### **HMMP** changes

- Climate change
- Build in resilience
  - A variety of habitats
  - Mixed with other income sources

#### Stacking

#### Does not play well with:

- Countryside Stewardship
- Sustainable Farm Incentives
- Carbon codes
  - Peatland
  - Woodland
- Most woodland grants

#### Does play well with:

- Modest amounts of specialist grazing
- Eco tourism
- Grants for public access

#### **Taxation**

#### VAT standard rate

#### Developer:

- Can usually recover VAT
- Cost of development

#### **Receipt of offset payment**

- HMRC consultation
- Income or capital gain
- Costs
- Woodland exemption
- Structuring thoughts

#### IHT

- APR changes from 6 April 2025
- Mysterious omission of BPR from consultation
- Budget 2024 mayhem

## Disclaimer

The whole area of taxation of BNG is under review and has many uncertainties. No reliance should be placed on anything said in this presentation without taking expert accounting, taxation and legal advice.



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## **Baselining for Biodiversity**

**David Hancock** *Laister Planning* 



## **Case Study of Habitat Clearance**

- It is early 2024
- Client not aware of his obligations
- Owns land that benefits from a historic planning permission
- Clears land which is a residential garden
- Engages the Council in a pre-application enquiry and BNG preapplication service regarding the development of 3x new dwellings

## **Background and Outlook**

- Some 8 acres of careful clearance taken place
- Considerable woodland loss
- Removal of residential woodland is penalised, planting residential woodland not rewarded on the BNG metric
- Hypothetically, the removal of 5 trees and replacement of 5,000 still counted as a significant loss



## Reality

- Total loss in the region of -19.66 habitat units, and -42.77%.
- Council flatly and correctly repeat need for 10% gain on pre-clearance data, citing appropriate legislation
- Site left with a ploughed surface, no much hope of demonstrating a 10% net gain on site, and significant cost for purchasing the required units.
- We needed legal advice.



## A Little Law

#### TCPA 1990 Schedule 7A

- Measurement of existing and proposed biodiversity is of the 'onsite habitat'
- The 'onsite habitat' means habitat on the land to which the planning permission relates
- An LPA must only be satisfied that the postdevelopment value of the onsite habitat has increased by at least 10% compared to the pre-development onsite habitat (paragraph 15, schedule 7A).

#### **Biodiversity Gain Requirements (Exemptions) Regulations** 2024

*Regulation 8:* The BNG Condition does not apply to "self-build and custom build". These:

- a. consist of no more than 9 dwellings;
- b. are carried out on a site which has an area no larger than 0.5 hectares; and
- c. consists exclusively of dwellings which are self-build or custom housebuilding.

Section 1(A1) of the Self-build and Custom Housebuilding Act 2015 Act defines "self-build and custom build" housebuilding as the building or completion by (a) individuals, (b) associations of individuals, or (c) persons working with or for individuals or associations of individuals of houses to be occupied as homes by those individuals.

## **Options**

- Existing situation was pure harm which benefits nobody.
- Solutions include:
- Application for 3x dwellings with a very careful red line, covering only very poor-quality pre-clearance ground such as tennis courts and hardstandings
  - Consider exemptions, such as self-custom build planning applications
  - Enhance the dwelling through permitted development rights and then sell the site

## **Actions and Key Learnings**

- We carefully drew a red line boundary around approximately 0.49 hectares for three dwellings and access, as a self-build planning proposal. BNG is not required at all.
- We could have drawn a red line boundary around the existing hardstanding and former grassland and delivered 10% BNG on that very small baseline, rather than the whole site.
- The remaining land will be landscaped by a professional landscaping and gardening team. The property has been extended and reconfigured through permitted development rights and lawful development certificates. No BNG has been required at all.
- If there had been flexibility, the applicant would have engaged and a BNG compliant scheme could have been put forward. The LPA would have control over that, and there would have been landscaping and ecology conditions for the whole area.

# *Thank you* Any questions?



### **Contact us:**



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