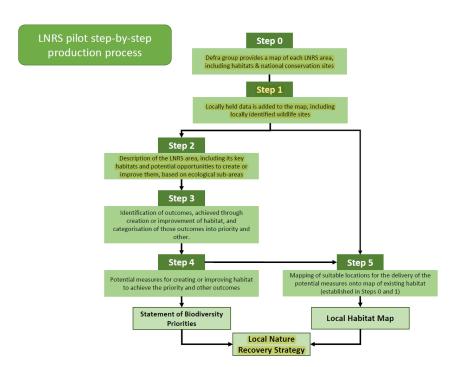
# Farming for the Nation





Defra Test & Trial and links to Nature's Recovery in Dorset

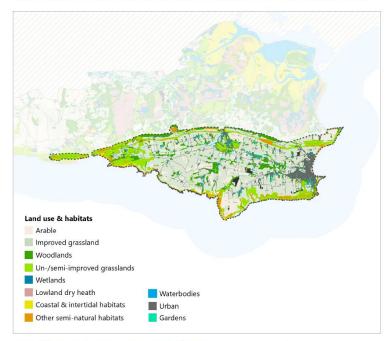
# Background



#### **Natural Assets Overview:**

### **Land Use & Habitats**

The way land is used is very important for understanding natural capital and its ability to provide benefits.



Datasets used in map: OSV, AONB, OSBL, LCA, DHM. See page 54 for full references.

9





# The 'public goods'

## **ELM Public Goods**





Clean and plentiful water



Clean air



Protection from and mitigation of environmental hazards



Mitigation of and adaptation to climate change

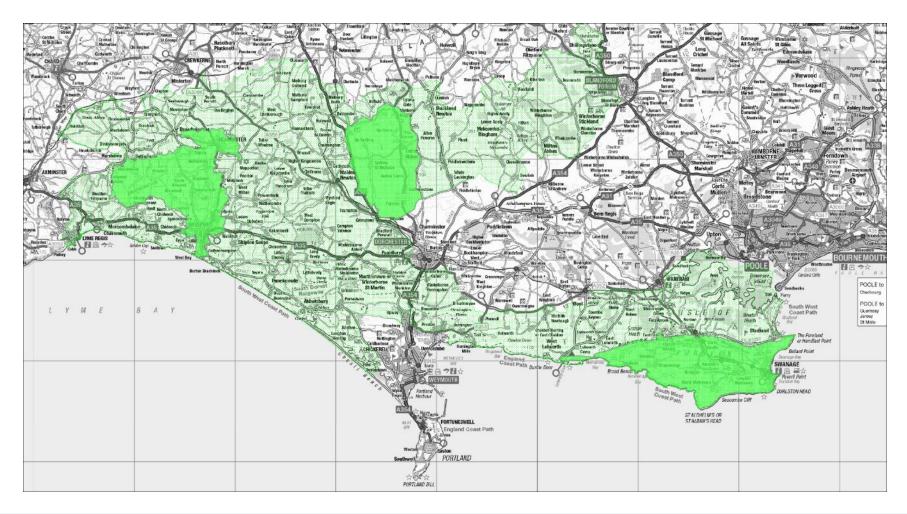


Thriving plants and wildlife



Beauty, heritage and engagement

# Where we are doing it?





# Strategic Landscape Plan

- Looked at the six public goods.
- For each of these:
  - Quantity & location
  - Quality
  - Areas for investigation & action
- For quantity, location and quality, we have used existing methods refined with local data
  - Natural England Indicators
  - Nature England Natural Capital Atlas



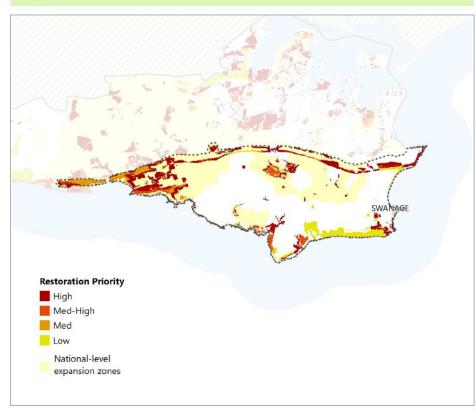
## 2. Areas for Investigation & Action: Woodland

#### Sites for enhancement and restoration

#### 1. Site selection

Land parcels most suitable for woodland restoration:

- Bracken
- Semi-improved grassland
- Plantations on Ancient Woodland
- Scrub



Datasets used in maps: OSV, AONB, OSBL, LCA, DHM, CSS, LHN, NEHN, ALC. See page 54 for full references.



#### 2. Prioritisation

Parcels close to existing 'core' sites: High

Parcels within locally produced habitat expansion zones: **Medium-High** 

Parcels within nationally produced and broader habitat expansion zones: **Medium** 

Remaining parcels: Low

After each stage, very small parcels and those on high grade agricultural land were moved down one priority level

Note: the opportunities presented in the map may conflict with opportunities presented for other broad habitats. Any actions should be taken after consideration of these other opportunities and what is best for the landscape as a whole.

Datasets used in analysis	Level	Res.	Date	
Dorset habitat map – selected land covers	L •		•	
Dorset core and stepping stone sites	L	•	•	
Local habitat expansion zones	L	•	•	
Natural England Habitat Networks	N	•	•	
Agricultural Land Classification	N		•	







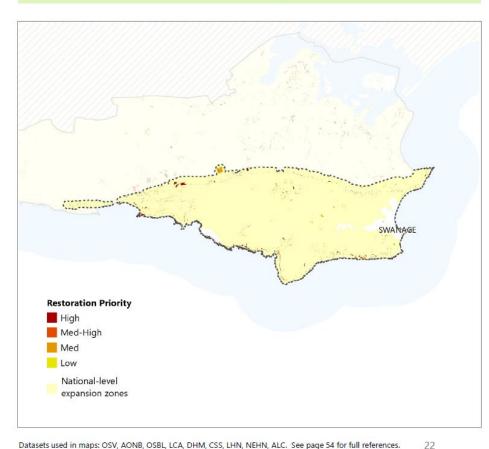
### 2. Areas for Investigation & Action: Grassland

#### Sites for enhancement and restoration

#### 1. Site selection

Land parcels most suitable for grassland restoration:

- Bracken
- Semi-improved grassland (which is not already a core grassland site)



Datasets used in maps: OSV, AONB, OSBL, LCA, DHM, CSS, LHN, NEHN, ALC. See page 54 for full references.

**Current Sites** Super-core (>40ha) Core Habitat Stepping Stone

Existing grassland core and stepping stone sites

#### 2. Prioritisation

Parcels close to existing 'core' sites: High

Parcels within locally produced habitat expansion zones: Medium-High

Parcels within nationally produced and broader habitat expansion zones: Medium

Remaining parcels: Low

After each stage, very small parcels and those on high grade agricultural land were moved down one priority level

Note: the opportunities presented in the map may conflict with opportunities presented for other broad habitats. Any actions should be taken after consideration of these other opportunities and what is best for the landscape as a whole.

Datasets used in analysis	Level	Res.	Date			
Dorset habitat map – selected land covers	L	L •		•	. • .	
Dorset core and stepping stone sites	L	•				
Local habitat expansion zones	L	•	•			
Natural England Habitat Networks	N	•	•			
Agricultural Land Classification	N	•	•			







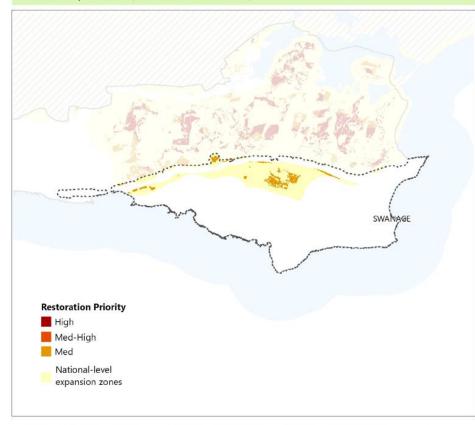
### 2. Areas for Investigation & Action: Heathland

#### Sites for enhancement and restoration

#### 1. Site selection

Land parcels most suitable for heathland restoration:

- Bracken & scrub
- Semi-improved grassland
- Coniferous plantations (not on ancient woodland)



Datasets used in maps: OSV, AONB, OSBL, LCA, DHM, CSS, LHN, NEHN, ALC. See page 54 for full references.



#### 2. Prioritisation

Parcels close to existing 'core' sites: High

Parcels within locally produced habitat expansion zones: **Medium-High** 

Parcels within nationally produced and broader habitat expansion zones: **Medium** 

Remaining parcels: **Removed** (would not meet specific heathland restoration criteria)

After each stage, very small parcels and those on high grade agricultural land were moved down one priority level

Note: the opportunities presented in the map may conflict with opportunities presented for other broad habitats. Any actions should be taken after consideration of these other opportunities and what is best for the landscape as a whole.

Datasets used in analysis	Level	Res.	Date
Dorset habitat map – selected land covers	L	•	•
Dorset core and stepping stone sites	L	•	•
Local habitat expansion zones	L	•	•
Natural England Habitat Networks	N	•	•
Agricultural Land Classification	N		•







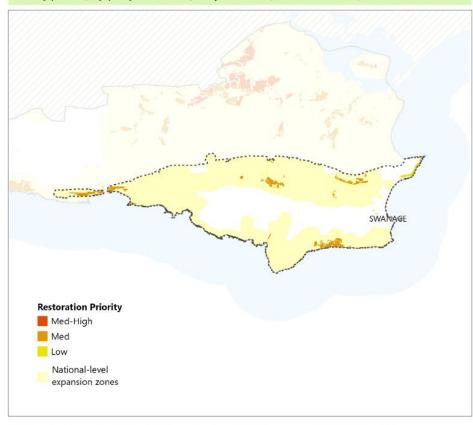
### 2. Areas for Investigation & Action: Wetland

#### Sites for enhancement and restoration

#### 1. Site selection

Land parcels most suitable for wetland restoration:

- Semi-improved grassland
- Coniferous plantations (not on ancient woodland)
- → Only parcels fully/partly within the floodplain taken forward as suitable for wetland restoration



Datasets used in maps: OSV, AONB, OSBL, LCA, DHM, CSS, LHN, NEHN, ALC, FZ2. See page 54 for full references. 25



#### 2. Prioritisation

Parcels close to existing 'core' sites: High

Parcels within locally produced habitat expansion zones: **Medium-High** 

Parcels within nationally produced and broader habitat expansion zones: **Medium** 

Remaining parcels: Low

After each stage, very small parcels and those on high grade agricultural land were moved down one priority level

Note: the opportunities presented in the map may conflict with opportunities presented for other broad habitats. Any actions should be taken after consideration of these other opportunities and what is best for the landscape as a whole.

Datasets used in analysis	Level	Res.	Date		
orset habitat map – selected land covers	L •		L •		
Dorset core and stepping stone sites	L •				
Local habitat expansion zones	L	•	•		
Natural England Habitat Networks	N	•	•		
Agricultural Land Classification	N	•	•		
Flood zone 2	N	•	•		



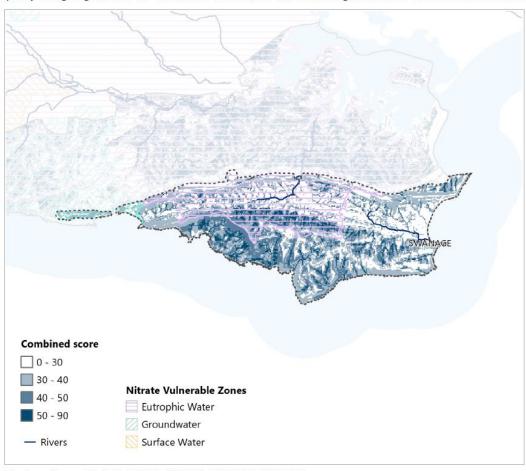




## **Clean & Plentiful Water**

### 2. Areas for Investigation & Action

The land areas that play a key role in regulating water quality as water moves through the landscape can be identified by mapping a series of indicators of inherent water quality risk. The map below shows where areas of risk occur and coincide, with darker shades showing areas of land where there is a greater risk of water quality being degraded in the catchment. These areas will be investigated further at a local level and then targeted for action through ELMS.



The map on this page shows the **combined risk score** across a grid of 'pixels'. The Dorset AONB area has been analysed at a 50m scale. The table below describes the factors considered in the analysis, and Appendix 2 shows the full scoring system.

Areas of risk & description	Dataset	Level	Res.	Date
Land use risk Some land uses inherently pose more of a risk of diffuse pollution. Arable land typically poses more risk to water quality than more natural habitats.	Dorset habitat map	L	•	•
<b>Slope</b> Slope is a risk factor that poses a threat to water quality.	OS 50m Terrain Model	N	•	•
Soil type Some soils are particularly prone to run-off/erosion, while others represent a risk due to rapid leaching of pollutants in solution.	NATMAP soils	N	•	•
Hydrological connectivity [6] In some locations water is more likely to run over the surface due to the shape of the land. These suggest where there may be pathways for contaminated water.	OS 50m Terrain Model	L	•	•
Proximity to watercourse Areas in the 'riparian corridor' are more likely to be connected to the watercourse.	OSMM Water Network	N	•	•
Nitrate Vulnerable Zones (not used in scoring, but overlaid onto map) Areas designated as being at risk from agricultural nitrate pollution	Nitrate Vulnerable Zones	N	•	•

Datasets used in map: OSV, AONB, OSBL, LCA, NVZ, DHM, DTM5, DTM50, NAT, OSWN. See page 54 for full references.

16





