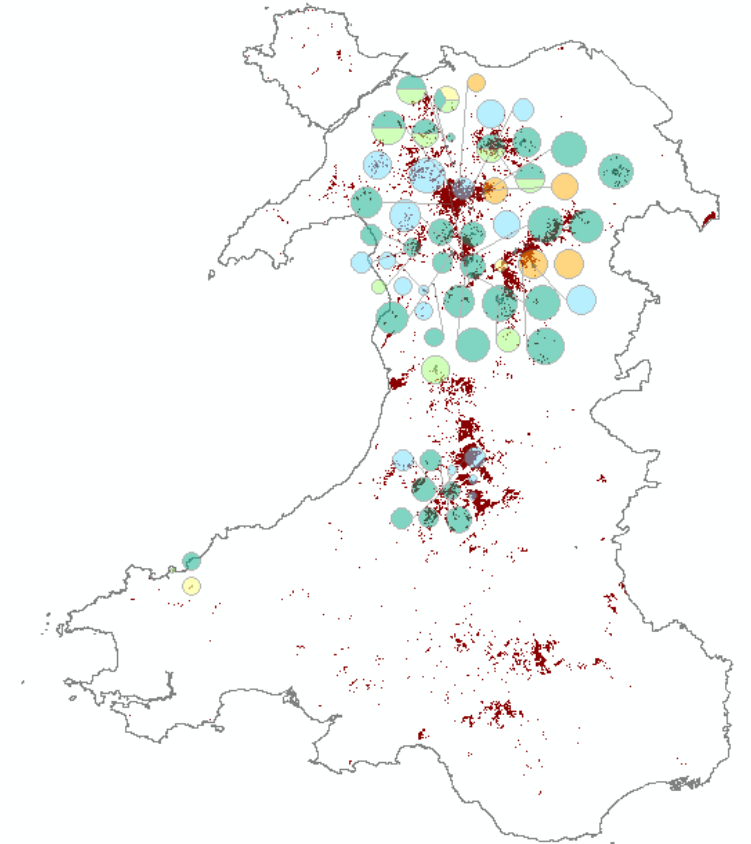


# Adfer Mawndir Cymru: Casglu a Rhannu Data

## Wales Peatland Action: Data Recording, Gathering & Sharing



Dr Esther Clews, Dr Peter Jones, Dr Rhoswen Leonard



# Casglu a Rhannu Data

## Recording & Sharing of Peatland Action



### Wales Peatland Action

A co-ordinated effort to deliver and communicate peatland restoration.

### Recording and Reporting of Peatland Restoration Action

- Aims, Audiences and Considerations
- Classifying Activities
- Field Recording
- Scalable Reporting
- Sharing



Hirnant.  
*Photo: Rob Bacon*



Helfa Isaf.  
*Photo: Alexander Falkingham*

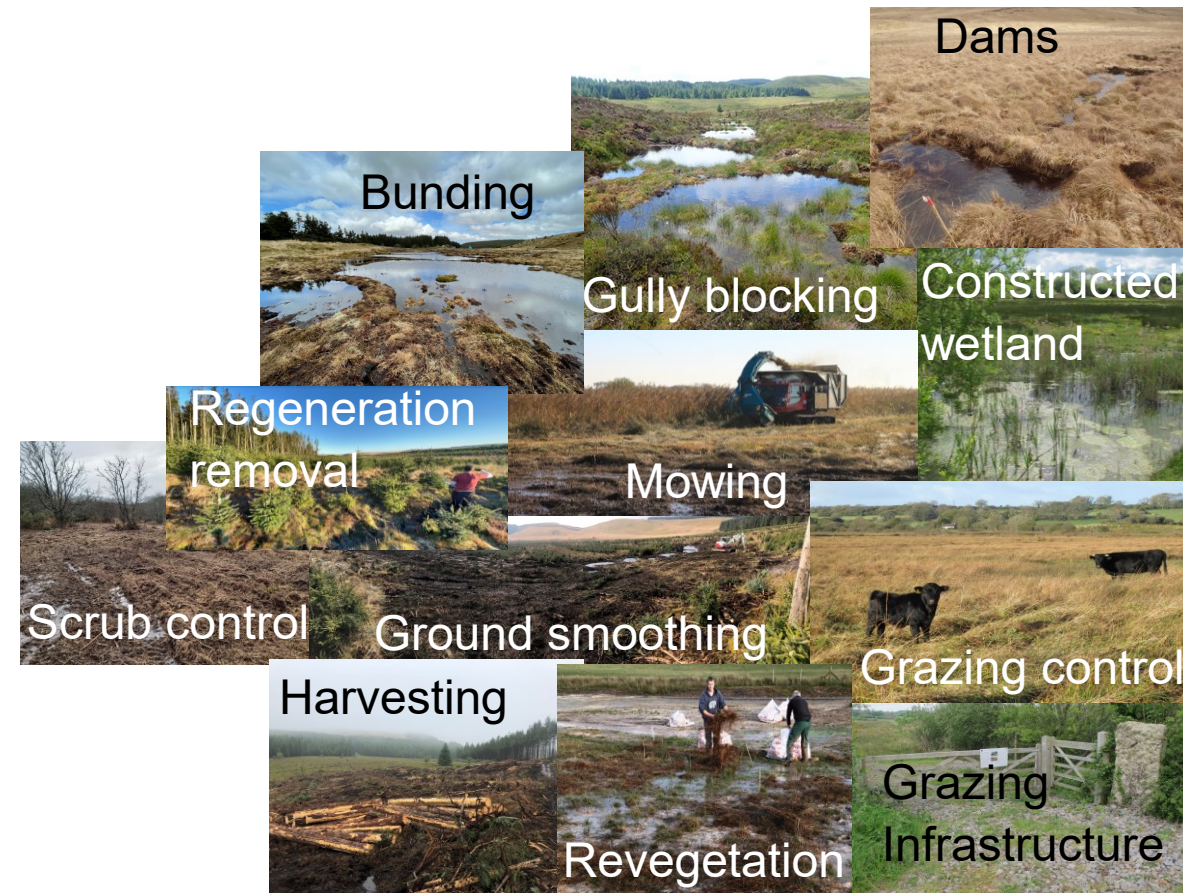
# Gweithgareddau Adfer Restoration Activities



Over 100 types of restoration activity identified

## Restoration Work in Wales:

- Wales Peatland Action since 2020
  - Over 60 sites
  - Direct delivery on the Welsh Government Estate
  - 14 Partner Organisations supported
- Past activities undertaken through NGOs, local councils and as part of LIFE-funded projects in Wales



# Casglu a Rhannu Data Adfer Mawndir Recording & Reporting Peatland Action



## Aim for Activities Tracking:

- **Record once**
- **Scalable** to feed into communication, analysis and reporting
- **Flexible** to adapt to emerging understanding of the potential impacts, without compromising raw data

## Audiences:

- Statutory reporting
- GHG emissions (based on area)
- Public information
- Practitioners – costing & evaluation
- Engagement of landowners

# Casglu a Rhannu Data Adfer Mawndir Recording & Reporting Peatland Action



## Aim for Activities Tracking:

- **Record once**
- **Scalable** to feed into communication, analysis and reporting
- **Flexible** to adapt to emerging understanding of the potential impacts, without compromising raw data

## Audiences:

- Statutory reporting
- GHG emissions (based on area)
- Public information
- Practitioners – costing & evaluation
- Engagement of landowners

## Considerations:

- Standardised recording of types of activities to support collation & comparability
- Ease of field recording (retaining key info on activities)
- Reporting units – Area reporting (areas of influence of action on peatland)
- Dissemination mechanisms

# Math o Weithgareddau

## Activity Types



### Classification – definitions of Activity Types: Coded Checklist

Activity Type	Description of Activity	GIS data type	Activity Code
Peat dam peat infill	Peat dams in ditches infilled with peat or reprofiled. Dams constructed of peat for the purpose of raising water levels within ditches and where the ditch is also infilled with peat or reprofiled. Lines should represent sections of ditches where water levels have been raised using peat dams and by infilling. Points can be added to record each dam location.	Polyline (and optional Points)	damppt

**Recording** – key info to capture: what, where, when  
 – formats GIS: points, polygons, polylines



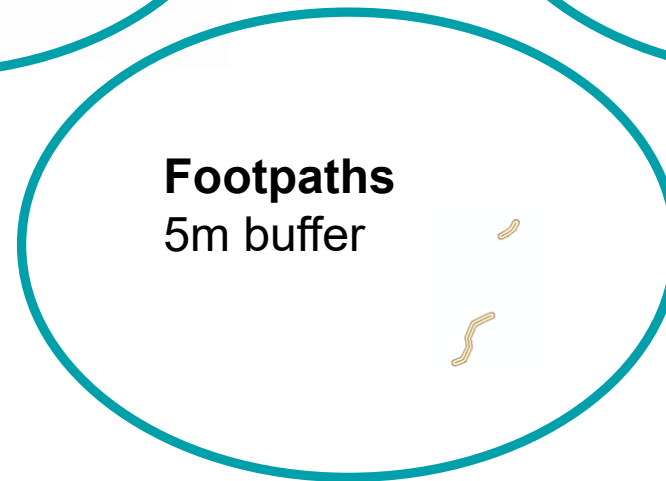
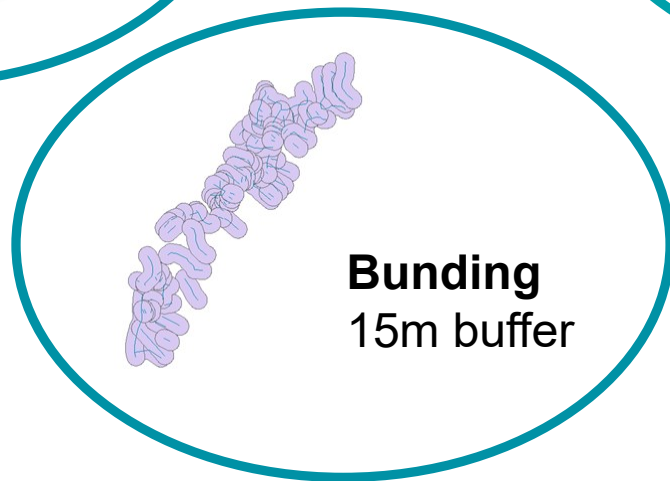
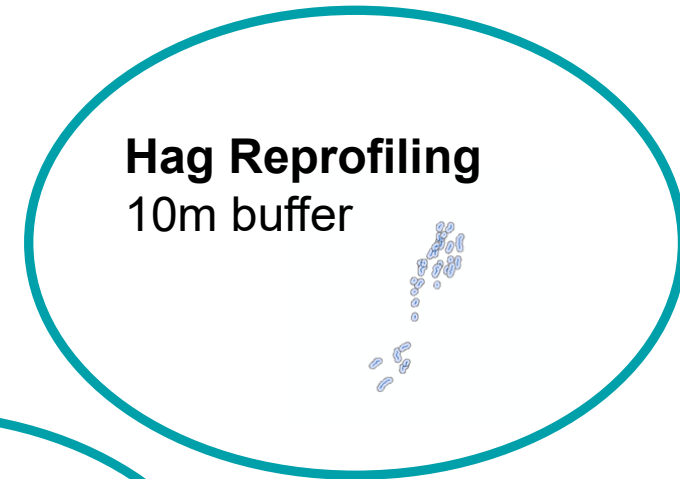
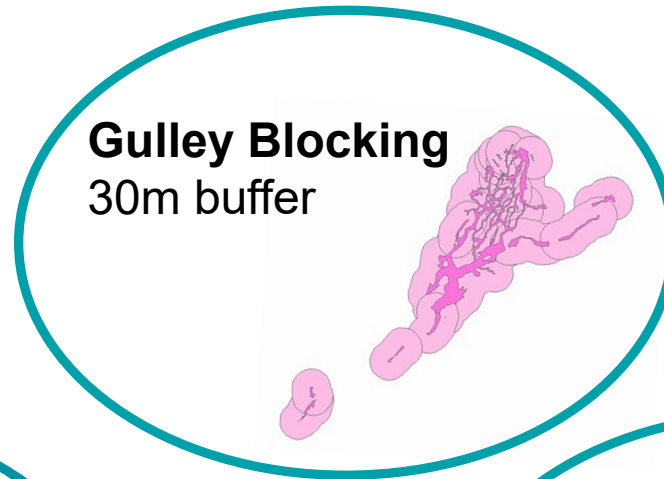
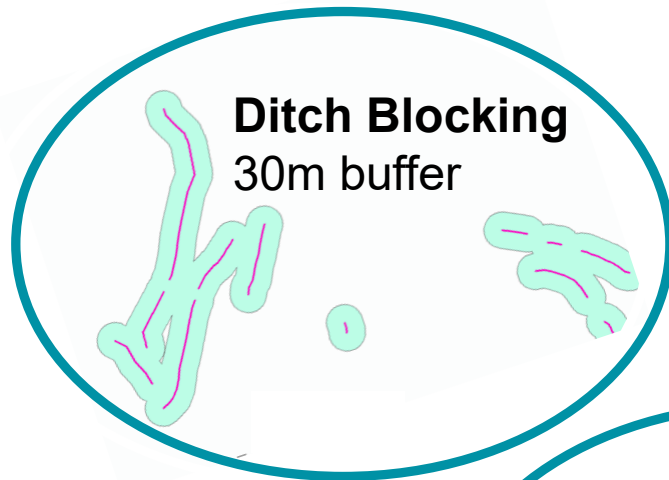
Activity\_Lines

	Site	ActType	ActCode	Length_m	Start_Date	End_Date	Comments	PrevAct	PrevType
▶	Hirnant	plastic dam no infill	damppni	5	21/03/2022	25/03/2022		N	NA
	Carn Fflur	Contour bund	hydrocbun	103.060042	10/02/2022	18/03/2022		Y	Scrub clearance NPAP DD C

---

# Adrodd ar yr Ardal o Fawndir a Weithredwyd arno

## Reporting the Area of Peatland Targeted by Activities



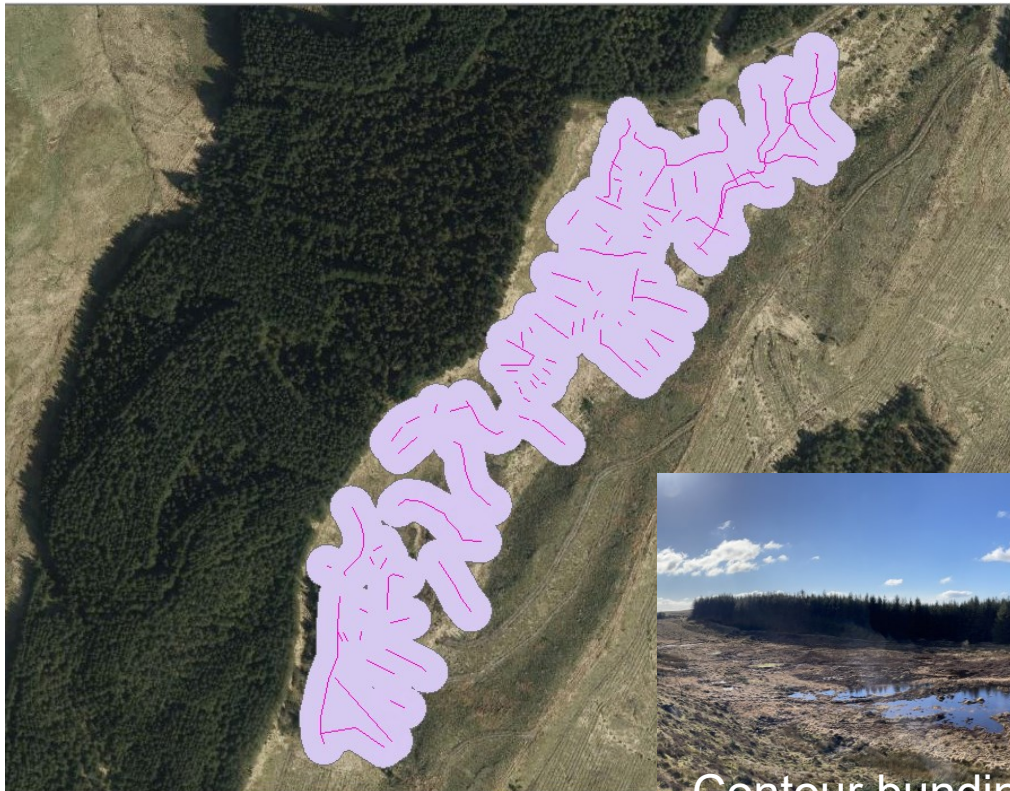
Flexibility to adjust buffer widths, based on emerging understanding of the area of peatland influenced, without compromising field data

# Cloddiau Mawn mewn Hectarau

## Bunds as Hectares



Contour bunding: 15m buffer



Contour bunding at Carn Fflur.

*Photo: Rob Bacon*



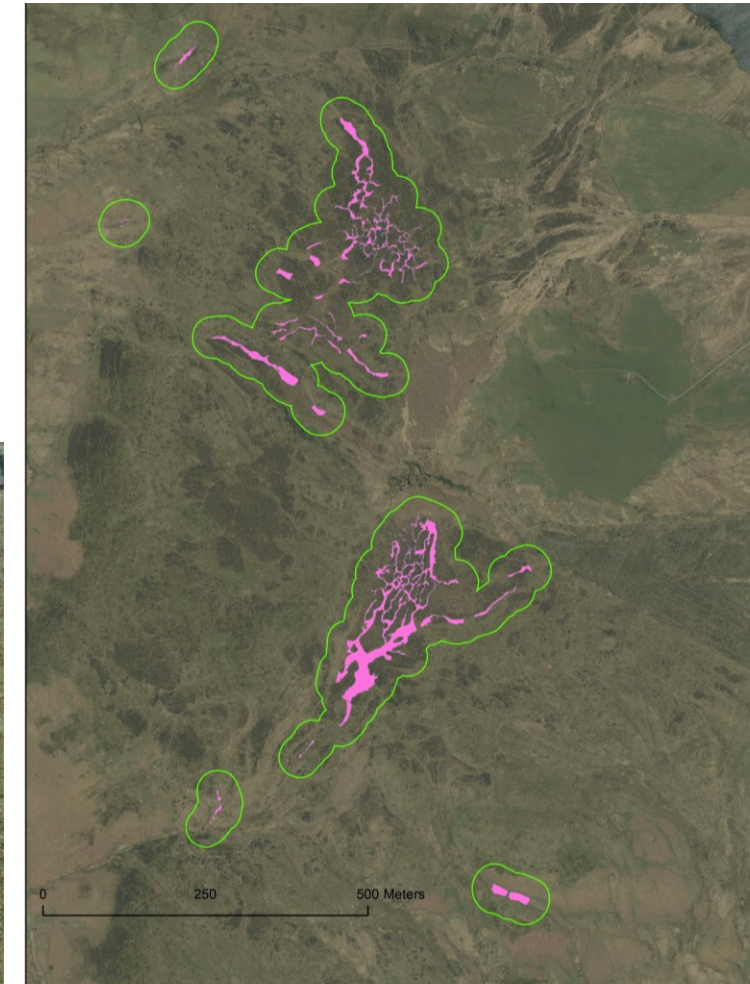
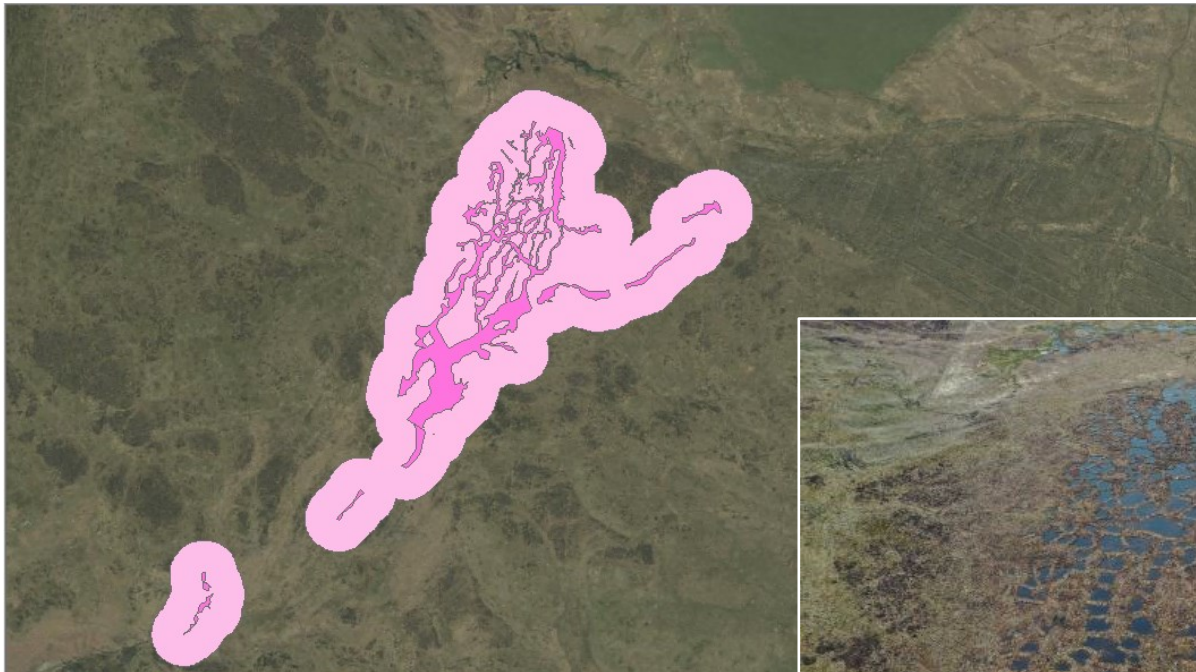


# Cau Rhigol mewn Hectarau

## Gulley Blocking as Hectares



Gulley blocking: 30m buffer



# Clystyru Gweithgareddau i Adrodd ar Raddfa Eang

## Nesting Activities for Broad Scale Reporting

### Hydrologic Management



Dams



Bunding



Ground smoothing

### Erosion Control



Gully blocking

Hag reprofiling

Surface stabilisation

### Vegetation Management



Revegetation

INNS  
Control



Mowing



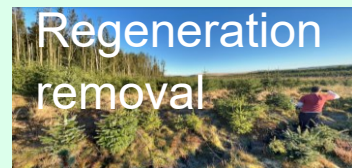
### Tree Management



Cut & Sned



Scrub control



Regeneration  
removal



Harvest

### Nutrient Control

Swales &  
inception  
trenches



Constructed  
wetland

Farmyard runoff management

### Grazing Management

Grazing control



Infrastructure



---

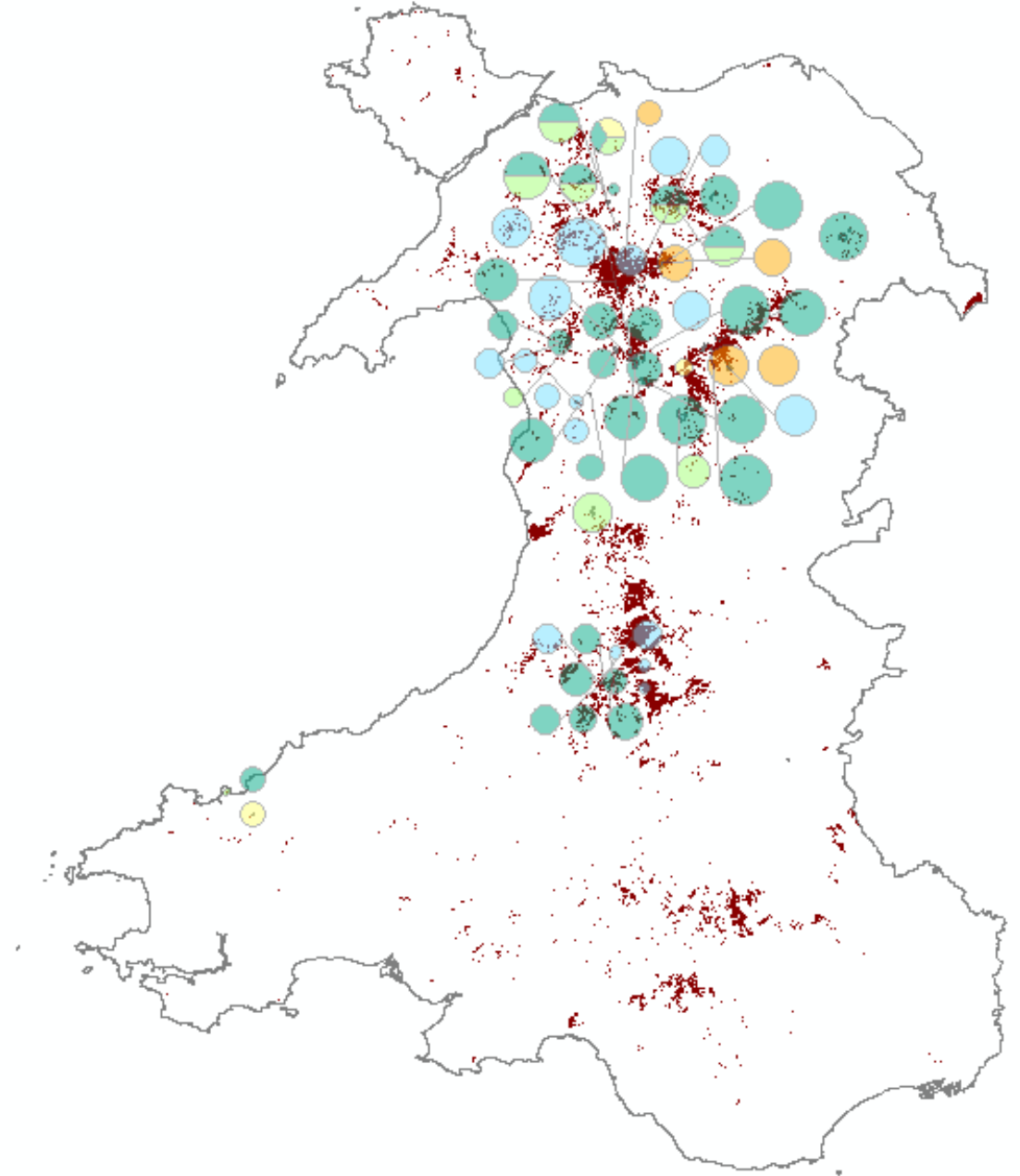
# Adrodd ar Weithgareddau Reporting Activities

## Wales Peatland Action FY21/22:

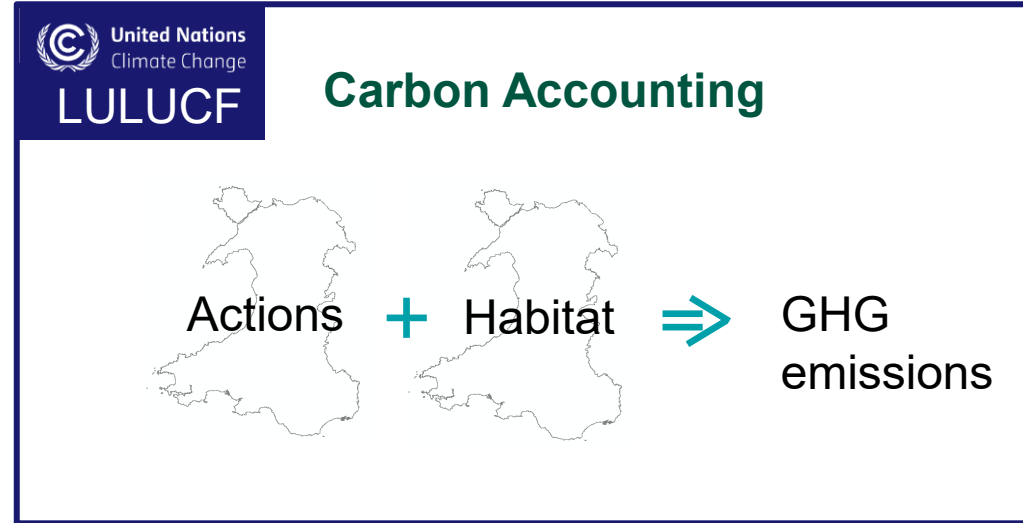
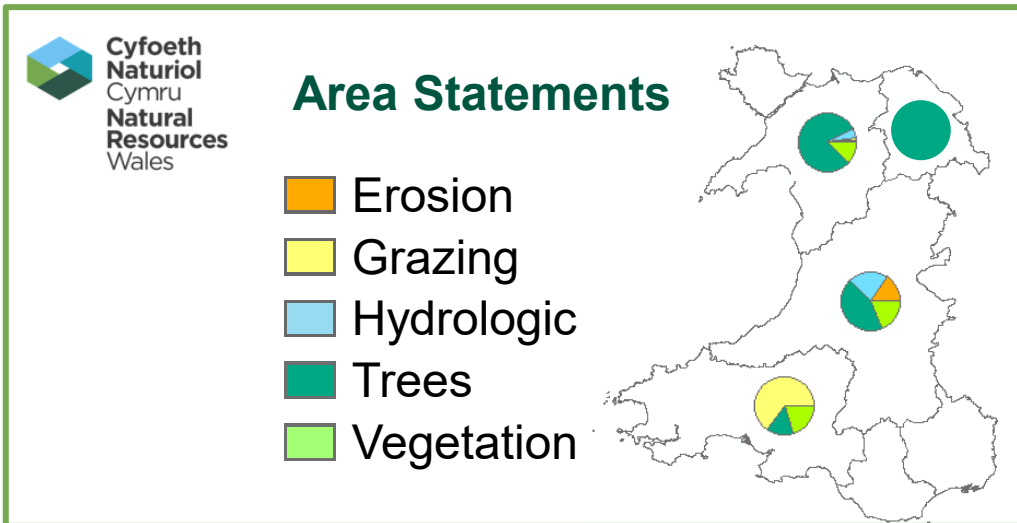
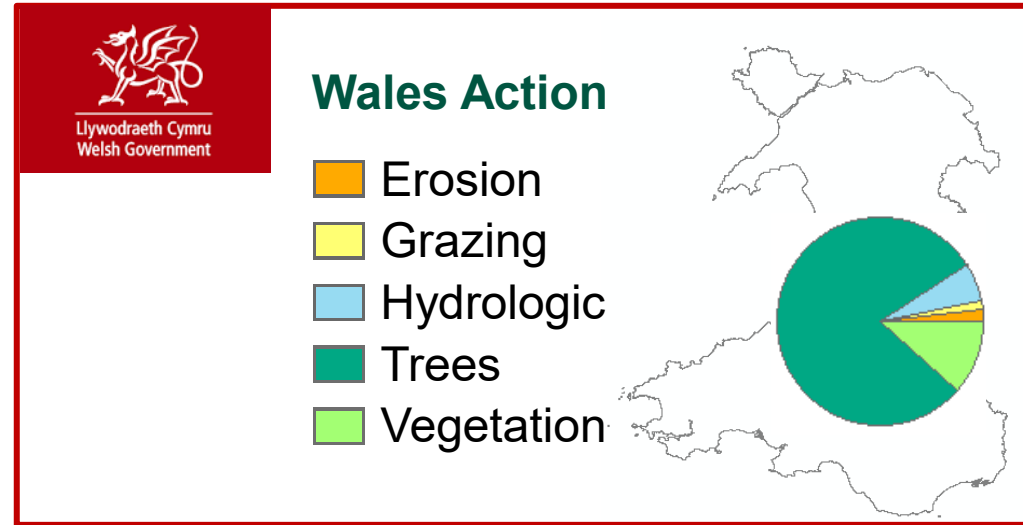
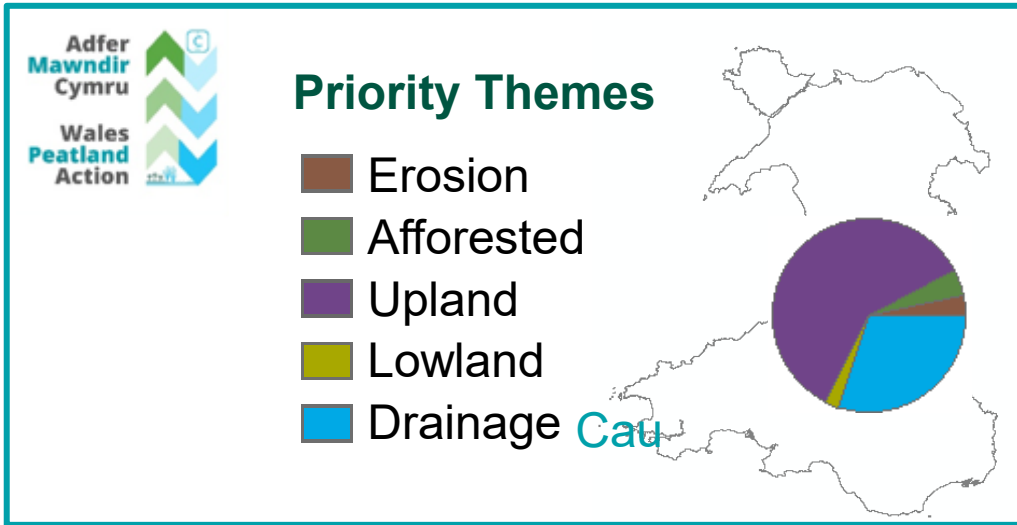
- 66 sites
- Over 2,000 ha activity

- Erosion Control
- Grazing Management
- Hydrologic Management
- Tree Management
- Vegetation Management

■ Peatlands of Wales



# Adrodd ar Weithgareddau Reporting Activities



# Cyfathrebu am Adfer Mawndir Communicating Peatland Action



## Welsh Peatland Data Portal... a one-stop shop for peatland maps

The screenshot shows the 'Welsh Peatlands Data Portal' interface. At the top, there is a navigation bar with the Cyfoeth Naturiol Cymru logo, the title 'Welsh Peatlands Data Portal', and links for 'National Peatland Action Programme', 'Cymraeg', and 'Accessibility'. Below the navigation bar is a search bar with the text 'Find address or place' and a search icon. To the left of the search bar is a list of data layers with expandable icons and eye symbols. The main area is a map of Wales showing peatland data as red patches. To the right of the map is a legend titled 'Legend' with a red square next to the text 'peatlands\_of\_wales'. At the bottom of the map, there is a small text credit: 'Esri UK, Esri, HERE, Garmin, FAO, NOAA, USGS | NONE'.

### Wales Peatland Action

- National Leadership, Strategic Direction & Coordination
- Engaging the Public and Landowners in Peatland Action
- Supporting Landowners and Practitioners
- Reporting Peatland Action in Wales

# Cydnabyddiaeth Acknowledgement



- NPAP team, NRW and WG colleagues
- NPAP Partners: BBNPA, Coetir Anian, Elan Valley Trust, National Trust, Natural England, NWWT, PCNPA, RSPB, RWT, SNPA, AONBs, Local Authorities
- Peat ACTION Scotland, The Catchment Based Approach (CaBA)

Contact: [NPAP@cyfoethnaturiolcymru.gov.uk](mailto:NPAP@cyfoethnaturiolcymru.gov.uk)

www: [Natural Resources Wales / The National Peatland Action Programme](http://NaturalResourcesWales.gov.uk)

[Welsh Peatland Data Portal | Wales Environmental Information Portal \(arcgis.com\)](http://WelshPeatlandDataPortal.gov.uk)



[@PeatlandCymru](https://twitter.com/PeatlandCymru) [#WalesPeatlandAction](https://twitter.com/WalesPeatlandAction) [#AdferMawndirCymru](https://twitter.com/AdferMawndirCymru)



NatResWales



Natural Resources Wales



[@natreswales](https://www.instagram.com/natreswales)

