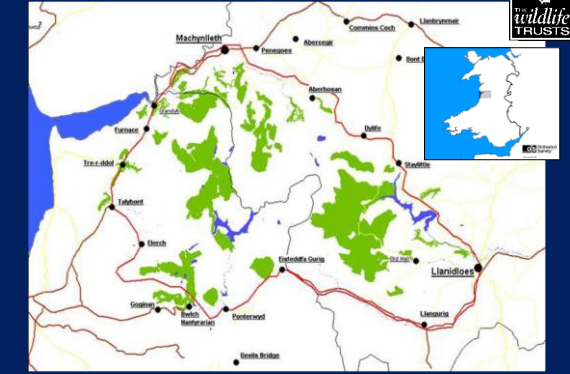


The Pumlumon Project
A Landscape for Life

Clive Faulkner
Dr Liz Lewis-Reddy

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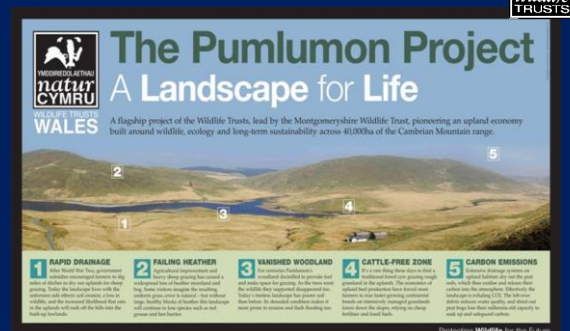


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The project area:

- 40,000 ha
- 16,000 population
- 4,500 employed and self employed
- Farm and farm related: 700
- Tourism and tourism related: 720
- Over 300 farm holdings
- £10.8m annually in direct agricultural support payments

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The Pumlumon Project
A Landscape for Life

A flagship project of the Wildlife Trusts, led by the Montgomeryshire Wildlife Trust, pioneering an upland economy built around wildlife, ecology and long-term sustainability across 40,000ha of the Cambrian Mountain range.

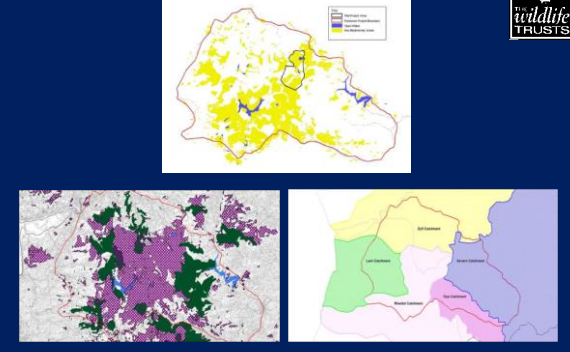
- 1 RAPID DRAINAGE** Heavy rainfall runs fast down steep hillsides to the coast, causing erosion and flooding. The loss of peat and silt from the hillsides can cause problems for the coastal fisheries and the loss of peat and silt from the hillsides can cause problems for the coastal fisheries.
- 2 FAILING HEATHER** Overgrazing by sheep and deer has caused heather to fail, reducing the habitat for many birds and insects. The loss of heather can also cause problems for the coastal fisheries.
- 3 VANISHED WOODLAND** The loss of woodland has caused a loss of habitat for many birds and insects. The loss of woodland can also cause problems for the coastal fisheries.
- 4 CATTLE-FREE ZONE** The loss of cattle has caused a loss of habitat for many birds and insects. The loss of cattle can also cause problems for the coastal fisheries.
- 5 CARBON EMISSIONS** The loss of woodland has caused a loss of habitat for many birds and insects. The loss of woodland can also cause problems for the coastal fisheries.

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There are big issues:

- Biodiversity Decline
- Diffuse Pollution
- Flooding
- Climate Change
- Rural Economy
- Ageing workforce
- Agriculturally unproductive land

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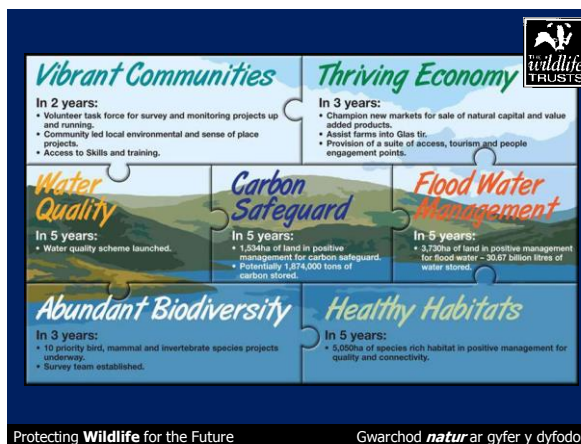
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Sustainable land management that builds natural capital and that is economically supported by EcoSystem Service delivery

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The Pumlumon Approach:

- A unified perspective
- Landscape scale
- Based on ecological processes
- Multi-functional
- Economic Outputs

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Healthy and robust ecosystems can create sustainable ecosystem services

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What are these Ecosystem Services?

- Flood Water Management
- Value Added Food
- Climate change mitigation
- Climate change adaption
- Biodiversity
- Tourism
- Water quality

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But what good is it to generate these outputs if they are not valued.....?

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Ecosystem Services Outputs (2006-2013):



Value added livestock (cattle)	55 animals processed
Carbon emissions reduction	792.4 tonnes CO2e/year
Carbon sequestered	585.71 tonnes CO2e/year
Net change in carbon balance	-1,377 tonnes CO2e/year
Additional volume of water due to rise in water table	427m litres/year
Increase in visits to visitor attraction, audio trail etc of which additional	40,000 visits/year 5,000 visits/year

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Value of Ecosystems Services Outputs (2006-2013):



Value added livestock (cattle)	£33,000	
Carbon emissions reduction	£21,371	(£27/tonne)
Carbon sequestered	£15,814	(£27/tonne)
Net change in carbon balance	£37,185	(£27/tonne)
Additional volume of water due to rise in water table	£22,433	(5p/litre)
Addition incomes from visitor spend	£175,000	(£35/visit)
Total annual value	£304,803	

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In 2023, potential whole area benefits (£/year) across 3,732 ha:




Livestock sales	£102,000
Carbon Benefits	£1,131,692
Water Benefits	£279,900
Recreation benefits	£612,500
Total annual benefits	£2,126,092


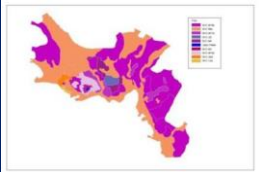
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But what good is this valuation if these services are not practically deliverable.....?




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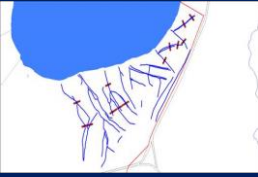
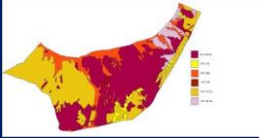

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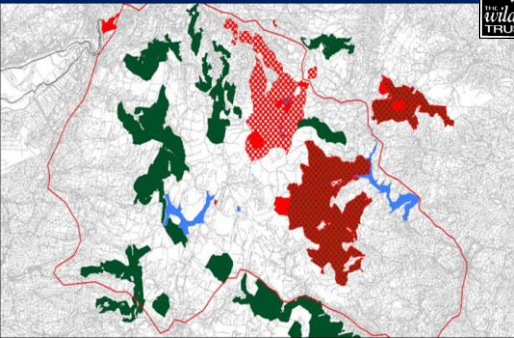
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Pumlumon Project 5 year plan

<h4>Vibrant Communities</h4> <p>In 2 years:</p> <ul style="list-style-type: none"> Volunteer task force for survey and monitoring projects up and running. Community led local environmental and sense of place projects. Access to Skills and training. 	<h4>Thriving Economy</h4> <p>In 3 years:</p> <ul style="list-style-type: none"> Champion new markets for sale of natural capital and value added products. Assist farms into Glas Iir. Provision of a suite of access, tourism and people engagement points. 	
<h4>Water Quality</h4> <p>In 5 years:</p> <ul style="list-style-type: none"> Water quality scheme launched. 	<h4>Carbon Safeguard</h4> <p>In 5 years:</p> <ul style="list-style-type: none"> 1,534ha of land in positive management for carbon safeguard. Potentially 1,274,000 tons of carbon stored. 	<h4>Flood Water Management</h4> <p>In 5 years:</p> <ul style="list-style-type: none"> 3,730ha of land in positive management for flood water – 30.67 billion litres of water stored.
<h4>Abundant Biodiversity</h4> <p>In 3 years:</p> <ul style="list-style-type: none"> 10 priority bird, mammal and invertebrate species projects underway. Survey team established. 	<h4>Healthy Habitats</h4> <p>In 5 years:</p> <ul style="list-style-type: none"> 5,000ha of species rich habitat in positive management for quality and connectivity. 	



Pumlumon in 2038

The once bare hills are now a diverse range of heather, bog, woodland and grassland supporting a range of wildlife. Today the land that used to produce only sheep now helps to pull in tourists, helps address climate change, produces high quality meat, cleans the water used by four million people, and protects urban areas from flooding.



- 1 VISITING ADMIRERS** Pumlumon becomes a world-class destination for nature lovers, offering a range of activities and experiences for all ages and abilities.
- 2 HEATHER HILLSIDES** The hillsides are covered in a diverse range of heather, bog, woodland and grassland, supporting a range of wildlife.
- 3 YOUNG WOODLAND** The hillsides are covered in a diverse range of heather, bog, woodland and grassland, supporting a range of wildlife.
- 4 CARBON FARMING** The hillsides are covered in a diverse range of heather, bog, woodland and grassland, supporting a range of wildlife.
- 5 NO MORE DRAINS** The hillsides are covered in a diverse range of heather, bog, woodland and grassland, supporting a range of wildlife.

For more information please visit www.monwt.co.uk/pumlumon or ring the Montgomeryshire Wildlife Trust on 01938 550654



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