

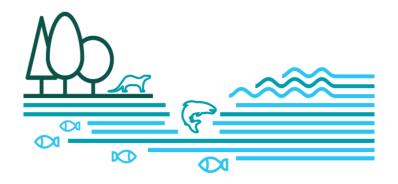


# LIFE Afon Dyfrdwy LIFE Dee River

## Restoration of freshwater features in Afon Dyfrdwy a Llyn Tegid SAC

**CIEEM Conference 2 February 2021** 

**Joel Rees-Jones** 









## LIFE programme

The LIFE programme is the EU's funding instrument for the environment and climate action created in 1992. The current funding period 2014-2020 has a budget of €3.4 billion.





The LIFE Natura 2000 (N2K) Project (2012-2015) used LIFE Nature and Biodiversity Funding to develop a Prioritised Action Framework, which identified the issues that needed to be addressed on all of Wales' Natura 2000 sites (92 SACs and 20 SPAs)

SACs and 20 SPAs).



The cost of bringing all of Wales' N2K sites into favourable condition was estimated to be £120 million in 2015

## LIFE application 2018: why the Dee?



- River Restoration a priority for NRW
- NRW's business plan '... improve salmonid stocks in Wales, and their freshwater fisheries habitats... seeking funding opportunities to implement work in RRPs...'





Year	Total project cost (£)	EU Contribution (£)	Welsh Project cost (£)	EU contribution to Welsh Projects (£)	% UK LIFE funding in Wales	Main Welsh projects
2015	32.63m	15.68m	2.5m*	1.875m*	12%	Mosses
2016	11.72m	7.63m	4m	3m	40%	Raised Bogs
2017	25m	15.65m	11.5m	7.5m	48%	Celtic & SoL
2018	16.78m	9.975m	6.8m	4m	40%	Dee

#### **LIFEDeeRiver**



- Co-ordinating beneficiary Cyfoeth Naturiol Cymru
- Associated beneficiaries Environment Agency & Snowdonia National Park Authority
- Co-financiers Dwr Cymru

**31 December 2024** 

£6.8m total project cost (£4m from EU)





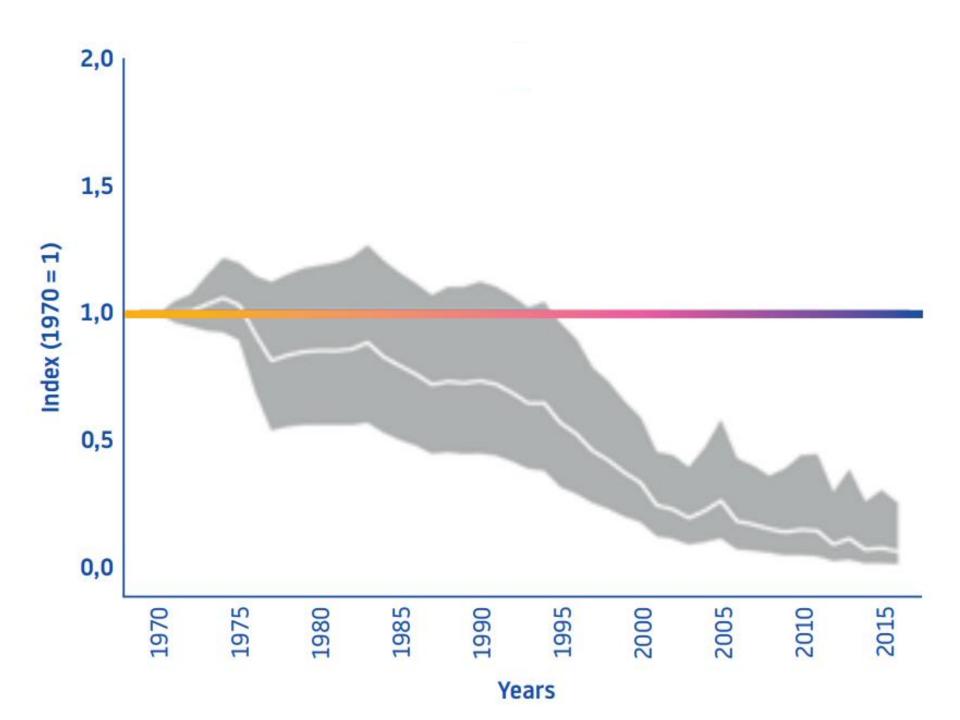




# Species and habitats for which SAC is designated











## Objectives

- Remove the constraints to fish migration and wider ecological connectivity.
- Restore or improve natural riverine physical processes, features and physical habitats in at least 55km of river.
- Improve agricultural and forestry land management practices to reduce the input of nutrients and sediment entering the SAC.
- Initiate conservation management for the critically endangered Fresh Water Pearl Mussel (FWPM)
- Establish and build long-term positive relationships with key stakeholders during and beyond the life of the project.

### Staff

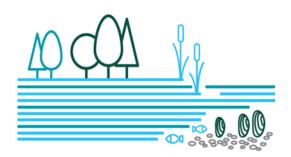
Senior Responsible Officer – Nick Thomas

Finance and Admin Officer – Cerys Jones Senior Officer, River Restoration - Gethin Morris **Communications Officer – Megan McNutt** River Restoration Officer – Rob Llewellyn-Smith Land Management Officers – Ifor Potts and Tomos Wynne Senior Officer, Monitoring - Rich Cove Senior Officer, Procurement - Cathy Mackinlay **Project Manager – Joel Rees-Jones** 

#### LIFEDeeRiver Actions



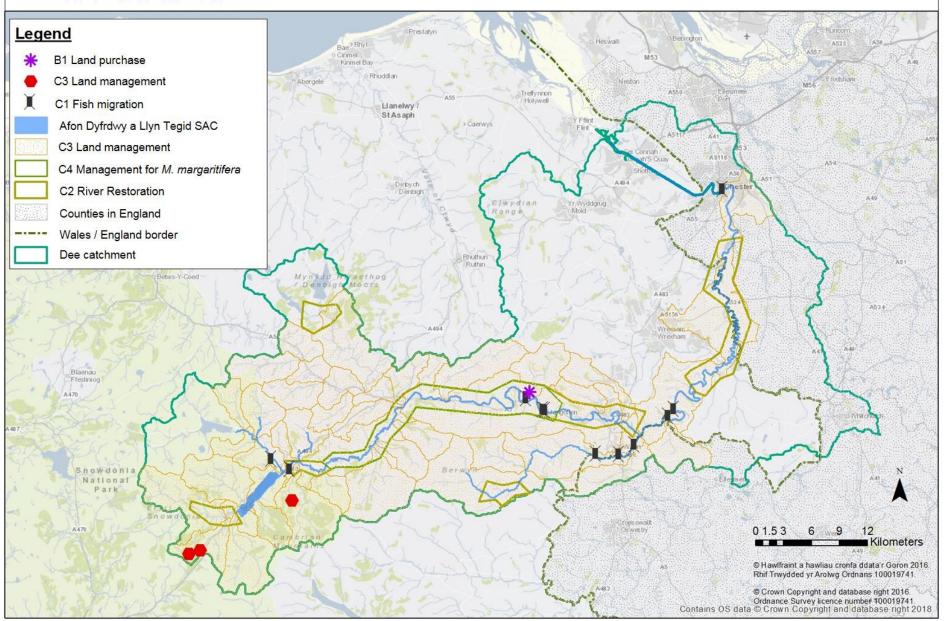
- A Preparatory actions
- **B** Land purchase
- **C** Conservation actions
- D Monitoring and impact assessment
- **E Communications and dissemination actions**
- F Project management







#### Overview of B and C actions Afon Dyfrdwy a Llyn Tegid SAC UK0030252



### Weir modification





## Tryweryn weir removal





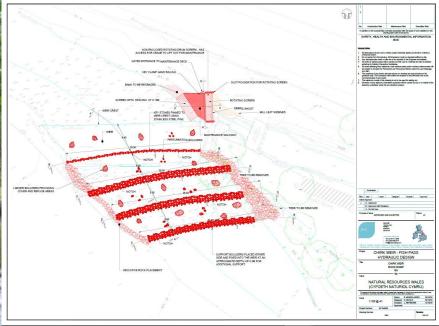
## Morlas Brook – location is key!





Construction of fish passage solutions

Chester weir
Manley Hall
Bala gauging weir
Chirk weir
Brynkinallt weir
Horseshoe Falls





#### **River Restoration**



- Introduce gravel, boulders and large woody debris (LWD) into the river
- Create a more sinuous planform
- Improve the riparian zone through managed grazing, fencing and/or planting
- Remove historic artificial bank protection
- Breach embankments





## Stock exclusion fencing







#### **Land management**



Improved water management in forestry within the SAC catchment

Work with farmers and land managers to reduce nutrients, sediments

and chemicals in the SAC catchment

C4. Conservation management for *Margaritifera*margaritifera

Pearl mussel captive rearing and release.

**Monitoring and impact** 

assessment



CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES

CORE MANAGEMENT PLAN
INCLUDING CONSERVATION OBJECTIVES

FOR

RIVER DEE AND BALA LAKE/AFON DYFRDW TEGID SAC

Version: 10 - David Hatcher and Heather Garrett

Date: 13.3.0

Approved by: NR Thomas - 15th April 2008













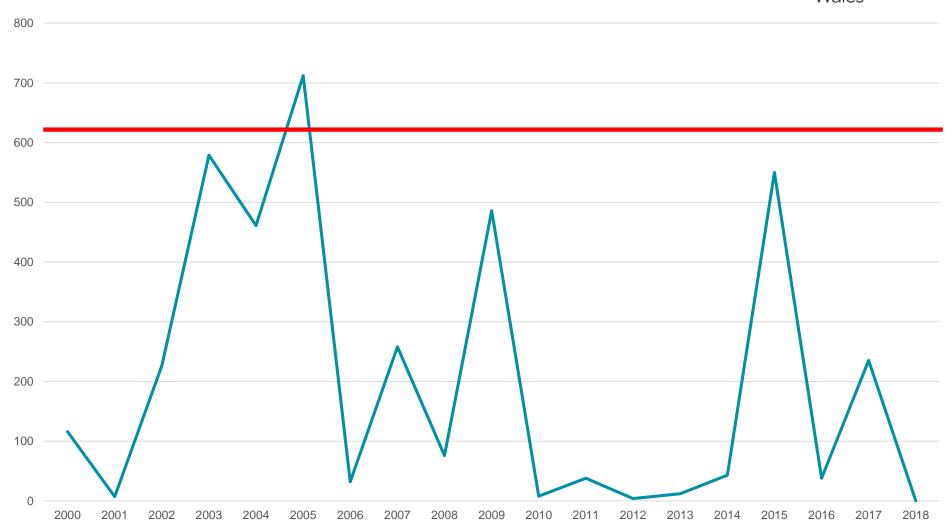






## River lamprey catch





## **Outcomes of the project**



- 1. Restoration of natural riverine processes and morphology
- 2. Habitats and species moved towards favourable conservation status (Habitats Directive)
- 3. Reduction in pollution of river with biodiversity and drinking water benefits
- 4. Improved Salmon and other fish populations



Grayling Thymallus thymallus

#### The future....



Get involved!



@LIFEAfonDyfrdwy



#LIFEDeeRiver

 4Rivers for LIFE – South Wales on Usk, Cleddau (E&W), Teifi and Tywi

