Developing & Delivering Payment for Ecosystem Services schemes in the UK

Hazel Kendall, Westcountry Rivers Trust

















Holistic advice for catchment management

Established; 1994

An environmental charity – dedicated to the protection, restoration and enhancement of the region's rivers and to educate the public about the value of water:

Conservation

Restoration

Science

Education

Catchment management

Fisheries & Wildlife

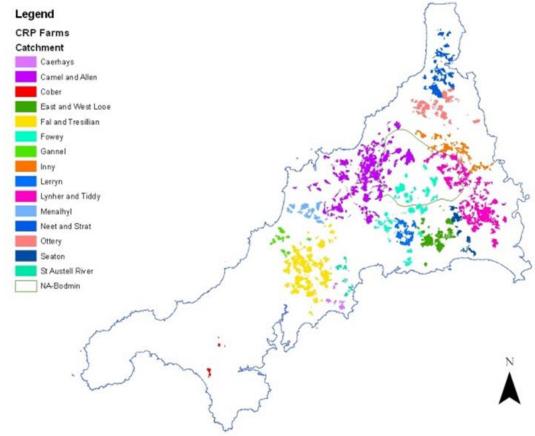
Education & Research







Early project delivery example: Cornwall Rivers Project



- 2002-2005
- 15 river catchments in Cornwall
- £2.6M
- 870 farmers & individually tailored and free 'Integrated River Basin Resource Management Plan'
- >560 km2 area of catchments
- >1380 kms of surveyed watercourse
- "To achieve rehabilitation of the rivers and their catchments to bring significant benefits to both the environment and the economic viability of local rural communities"
- Specifically to improve the economic potential of Cornwall's freshwater fisheries resource, the development of which relies on a pristine riverine environment.



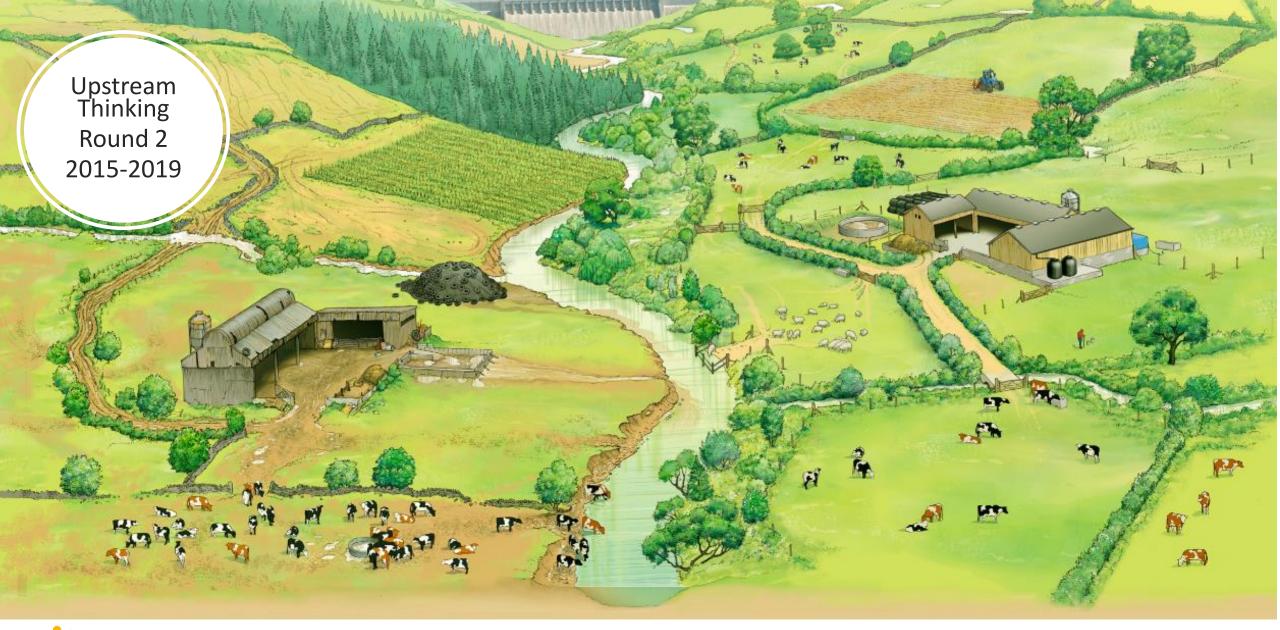


Upstream Thinking Round 1 2009-2014

Water Company PES









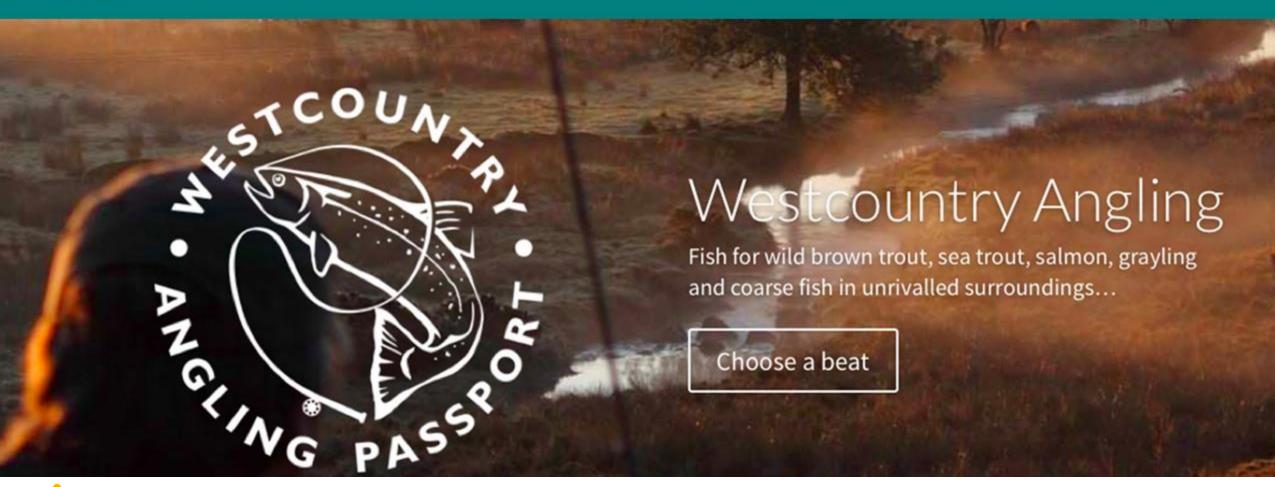
















Creation & development of WAP

- First token-based angling scheme in the UK
- 'Angling 2000'
- Later renamed the 'Angling Passport'









- links farmers, anglers, conservation
- Route into river angling
 - Easygoing, no commitment
 - Aging angling population / encourages younger anglers
 - amazing private locations
- Affordable angling
 - Accessible & affordable to all
 - appeals to those who like to roam, visit new places or holiday





Angler's Record

Please retain

No.

The WAP App



Catch Return
It is a requirement of using the Passport
Scheme that you must submit a cotch return

No.

Date 2019 Beat
Catch/Comment, Please provide as much information as possible - species, number cought, method etc.

This token expires on 31/12/2019* Non-refundable record to stage on the Cotch No.

Date 2019 Beat
This token expires on 31/12/2019* Non-refundable record to stage on 50 cords fe hir mul/2020 - 15/1/3020
Angler's Name

Car Reg No.

Place in box <u>AFTER</u> Fishing or file your return online at

FISH PASS

You can find more detail on any of the beats listed by tapping on them.

The number on the lower left of the beat photo is the amount of tokens required to fish that beat.

Once you have set a beat as a favorite, you can filter the beat list to just Favorites bwith the button at the bottom right of the screen. To switch back to the full list just tap the button next to it that says "ALL".

The circular icon that looks like a compass will take you to an over view map of all the beats where you can use Fish Pass to fish.

You can use two fingers on your screen to zoom in and out and tap on the red pins to find out what beat you are looking at.

This list is also filterable with favorities, so when you have favorited a couple of beats, and filtered the list, the map will only show you the beats you have tagged.









The Catchment Based Approach (CaBA)

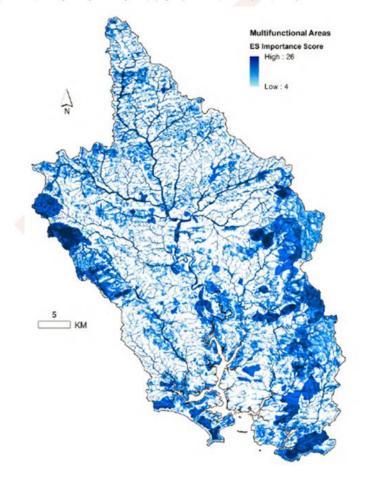






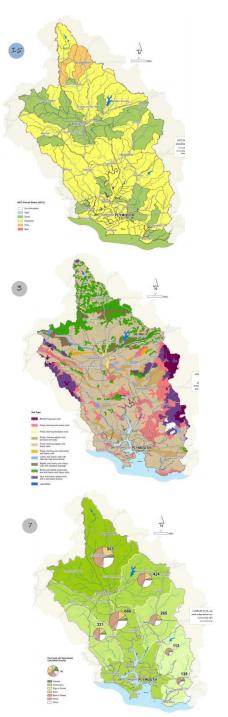
"...to work with stakeholders to establish a framework for integrated catchment management across England...to feed into the 2nd cycle of the RBMPs to meet objectives under WFD."

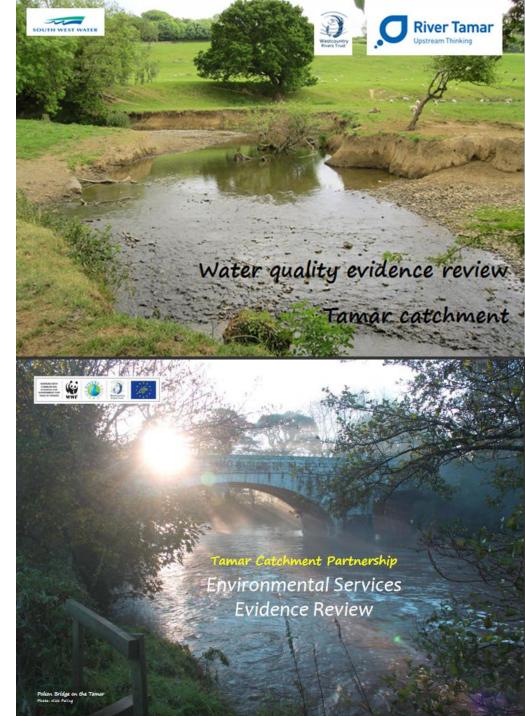
Figure 26. Map showing areas of land identified as playing a key role in the provision of multiple ecosystem services.

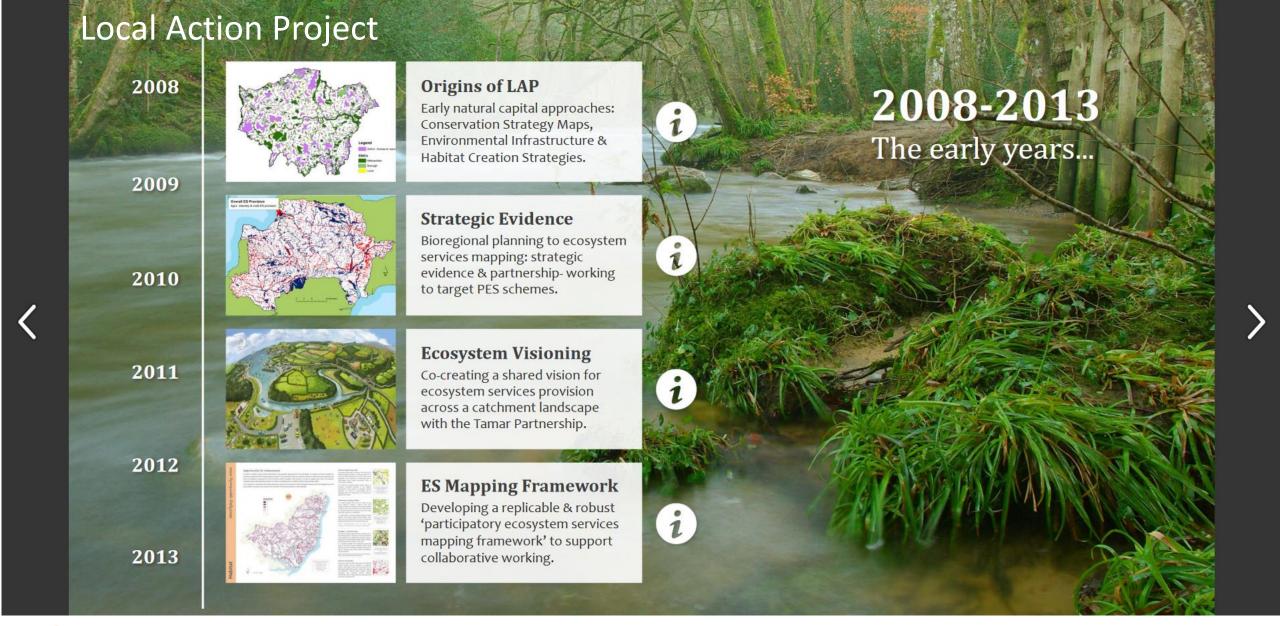


https://issuu.com











Strategic evidence & partnership

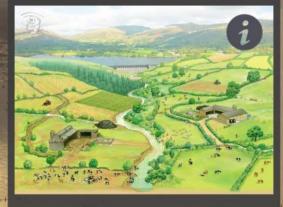
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From the concept of bioregional planning to early attempts at participatory ecosystem services mapping: using strategic evidence & partnership-working to target PES schemes



Strategic Evidence & Partnership: 2011

Establishing strategic local partnerships and developing catchment evidence - a first attempt to map ecosystem service-provisioning areas.



WATER Project PES Handbook: 2008-10

Using ecosystem services mapping to facilitate the development of innovative Payments for Ecosystem Services (PES) markets.



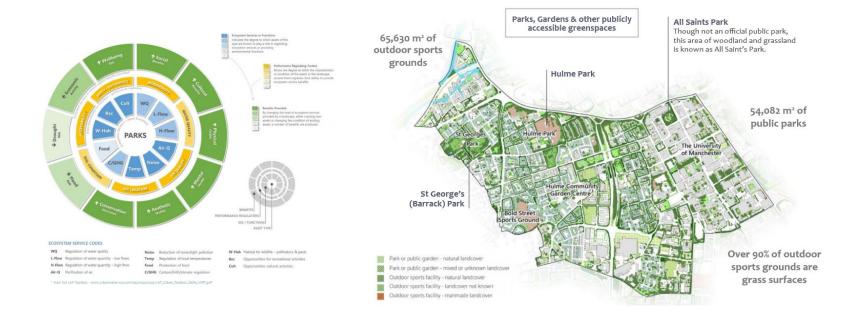
The Tamar Catchment Partnership Pilot: 2012

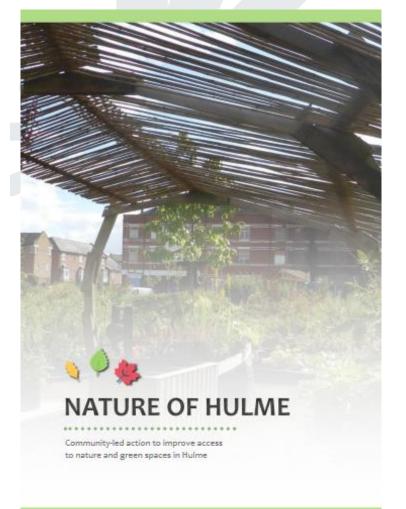
Developing a truly participatory ecosystem services mapping approach - 62 stakeholders, >60 hours of deliberation, 1 shared vision for the catchment.





Urban environments; access to green and blue space (The Nature of Hulme, Manchester City Council & Defra)











Channel Payments for Ecosystem Services (CPES) Westcountry Rivers Trust -Devon pilot case studies: River Lyd & River Gara





























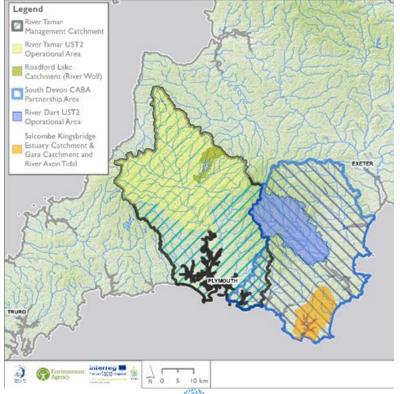


Channel Payments for Ecosystem Services

France (Channel) England

Interreg



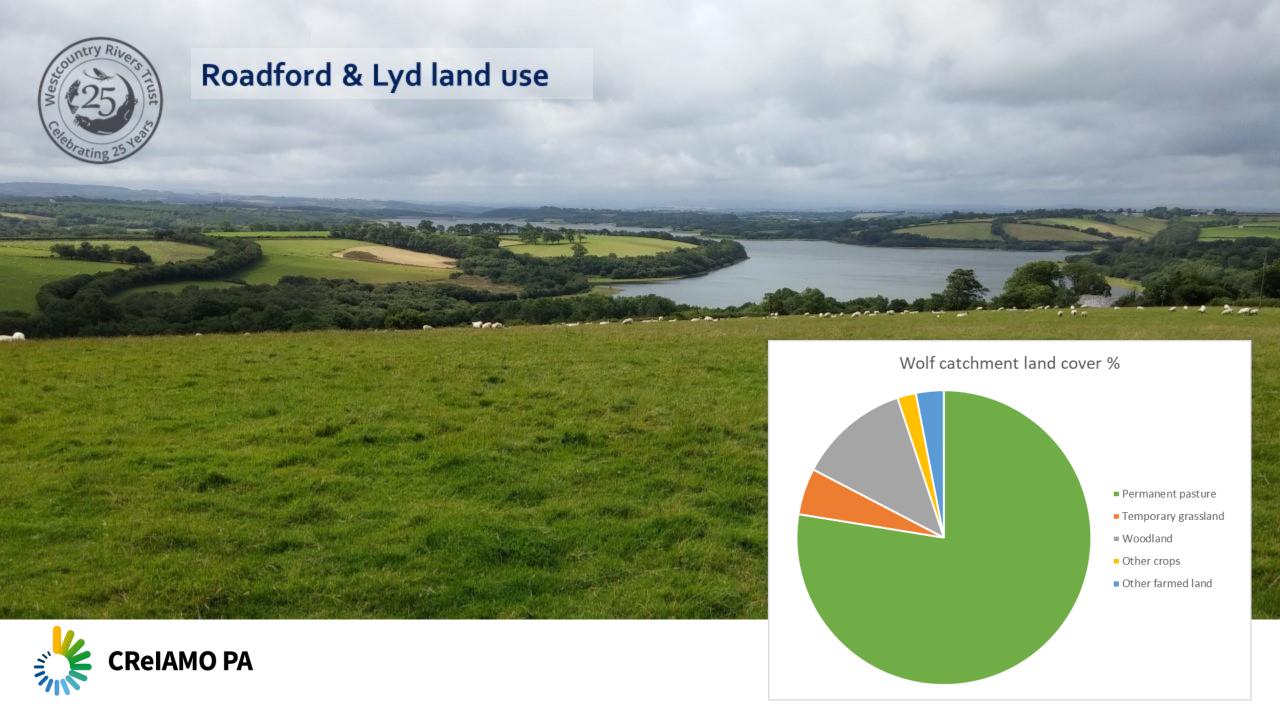






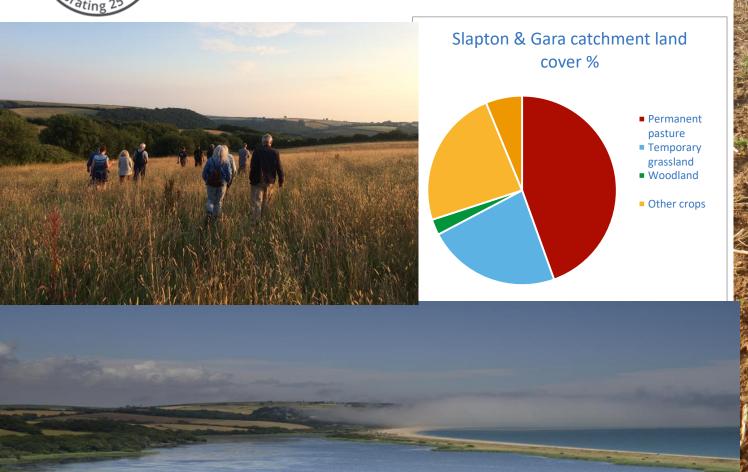






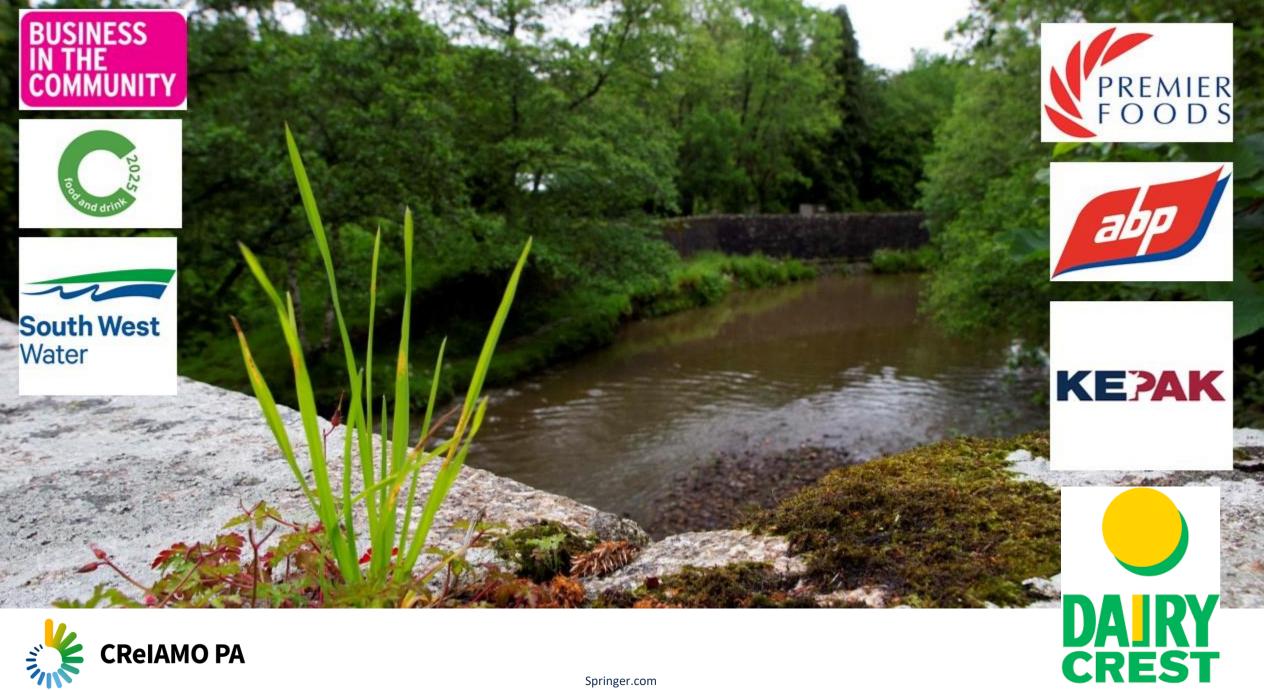


Slapton & Gara land use



















SOILS STORE AND FILTER WATER

Soils improve food security and our resilience to floods and droughts



Healthy soils with a high organic matter content can store large amounts of water.

This is crucial for maintaining food production while also improving resilience to floods and droughts.



What is soil moisture?

Soil moisture content is the amount of water in the soil (by weight).

The maximum amount of water that a soil can retain depends on:



the soil's texture and structure



organic matter content



rooting depth



Soil organic matter can retain about 20 times its weight in water.





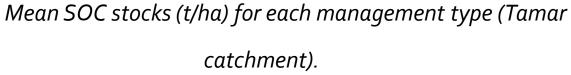
By restoring degraded soils and adopting soil conservation practices...



...there is major potential to decrease the emission of greenhouse gases from agriculture, enhance carbon sequestration and build resilience to climate change.







Error bars are standard error of the mean of 3 replicates in each









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Our current land management projects





The CPES Fund – Online Donations
Business & Private Sector engagement







