

The future of Payments for Ecosystem Services



By Laurence Couldrick - Westcountry Rivers Trust



Pressures on the catchment



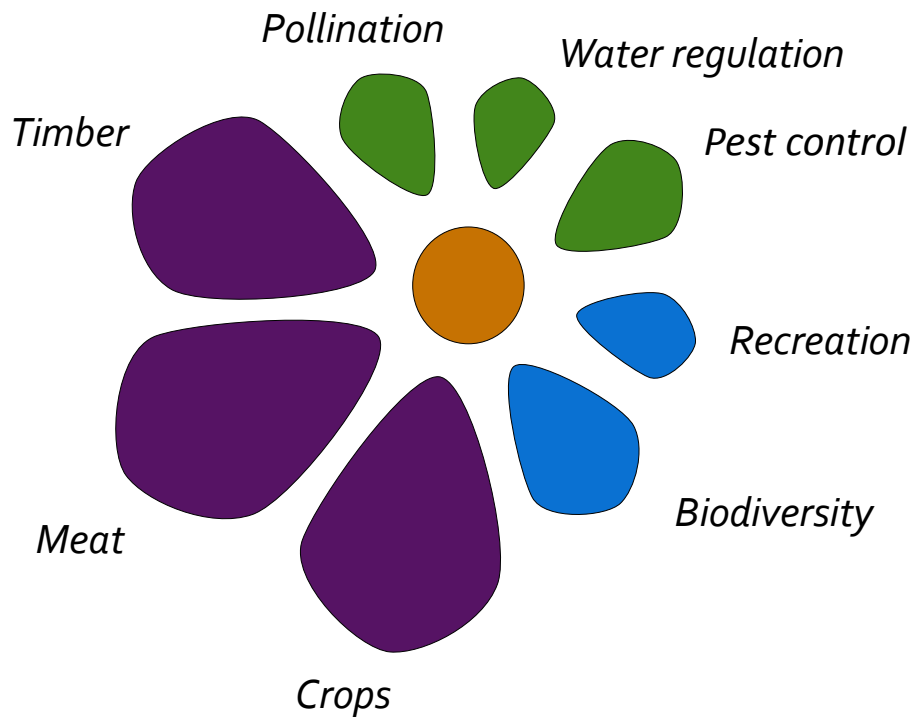
Areas impacted



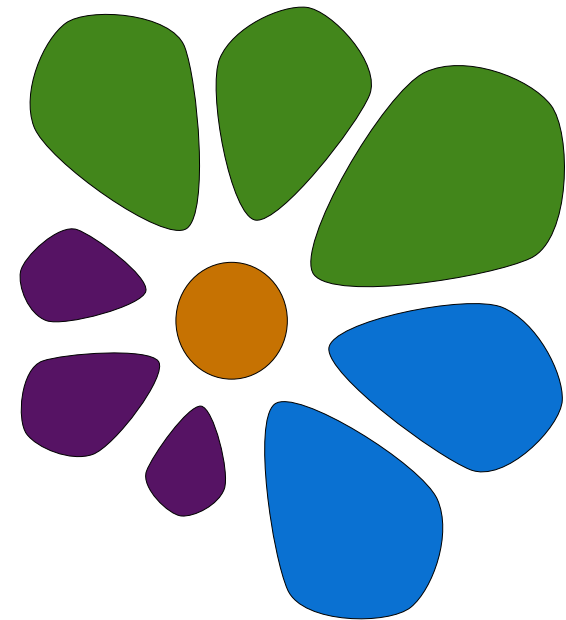
What do we get from our catchments?



Agricultural Ecosystem



'Natural' Ecosystem



Provisioning services



Regulating services



Cultural services

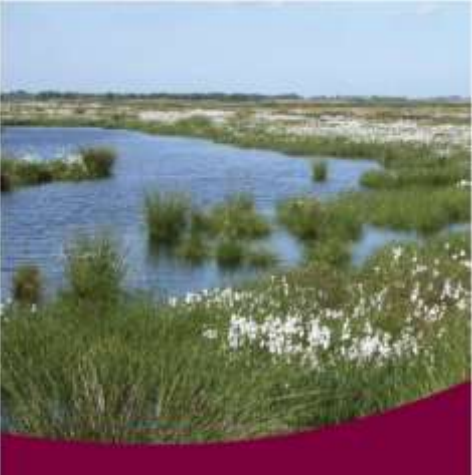
Tourism
Devon County Council's
Action Plan
2009 - 2016

Environment Agency

BATHING WATER PROFILE

We have produced a profile for each European designated bathing water in England and Wales. The profile gives information about the bathing water including any improvements made to provide better water quality for bathing. Bathing water profiles are a requirement of the revised Bathing Water Directive 2006/7/EC and supporting regulations.

All bathing water profiles will be reviewed and updated by May 2012. We would like your feedback and comments to contribute to this review. If you wish to [comment on the profiles](mailto:comment@bathingwaterprofiles.gov.uk) please send an email to comment@bathingwaterprofiles.gov.uk between 24 March and 30 September 2011.



HM Government

The UK Low Carbon Transition Plan
National strategy for climate and energy



Plymouth Hoe West, Devon, England



Cornwall and West Devon Mining Landscape - Management Plan 2005-2010

Cornwall and West Devon Mining Landscape

World Heritage Site
Management Plan
2005-2010

Celebrating Cornish Mining Heritage

Part 1: Strategy



land's peatlands
Storage and greenhouse gases

peatlands.gov.uk

NATURAL ENGLAND

WEST DEVON BOROUGH COUNCIL

**TAVISTOCK CONSERVATION AREA
MANAGEMENT PLAN**

July 2009

Cornwall and West Devon Mining Landscape - Management Plan 2005-2010

South Devon
Area of Outstanding Natural Beauty

Management Plan 2009-2014

WARDS BY

of catchments can be viewed



It is the preservation of culture to significant studies, high and improving the sustainable industry.

www.southwestregion.org.uk

Government South West Strategy (2007-2013) - a partnership for better together. We are committed to Regional and Quality.

South West Local Enterprise Partnership (LEP)

defra

**SOUTHWEST REGION
Saltwater Recreational Fishing
Action Agenda**

November 2011



**Northern Devon FLAG
Development Strategy
2011 - 2015**

May 2011

FLAG

Department for Transport

defra

Tools used to deliver behaviour change



Win-win advice

Designations

Statutory Management
Requirements

Win-Win: Dirty Clean water separation



A farm with annual rainfall of
1.5m/yr on a roof of 20m x 30m:

Cost: Guttering > £20

Saving:

- A) 20m x 30m = 600m² produces
900m³ water in slurry pit
(pumping £1/m³) = £900/yr
- B) 900m³ water (mains £2.00/m³) =
£1800/yr

Further savings are realised if you
consider, reduced soil compaction
& pollution risk reduction



Tools used to deliver behaviour change

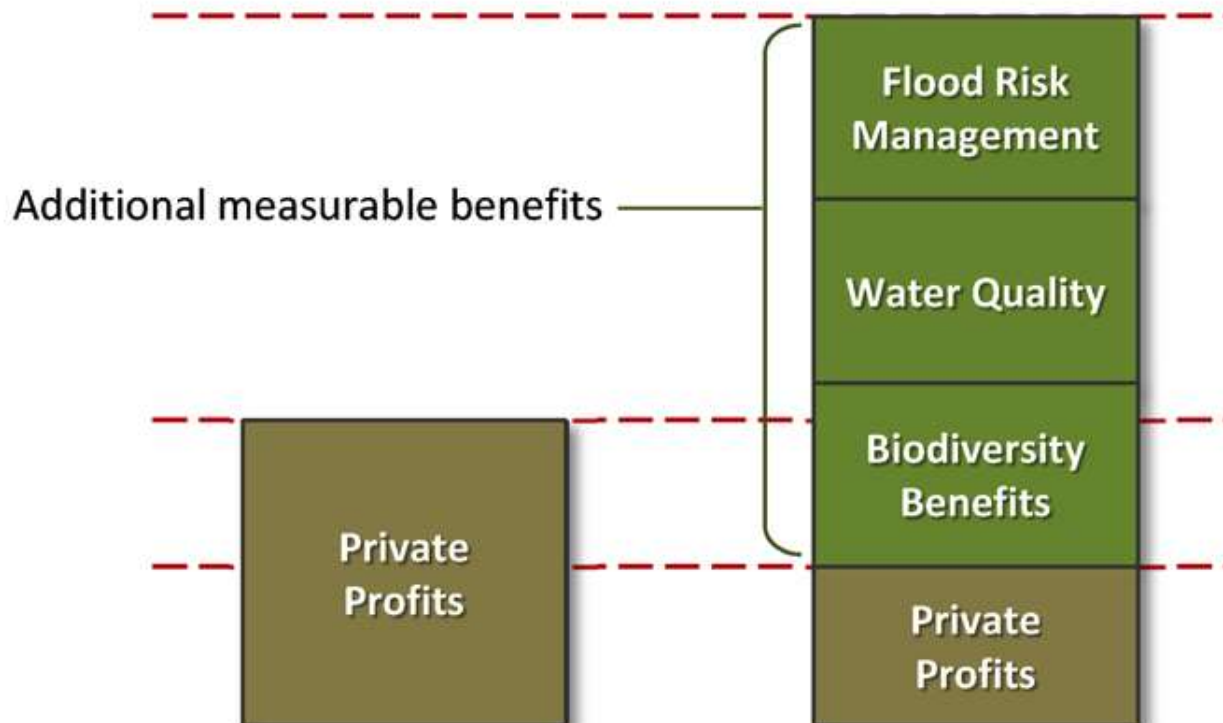


Paid Ecosystem Services – IN THEORY



Land managed
for agricultural
production

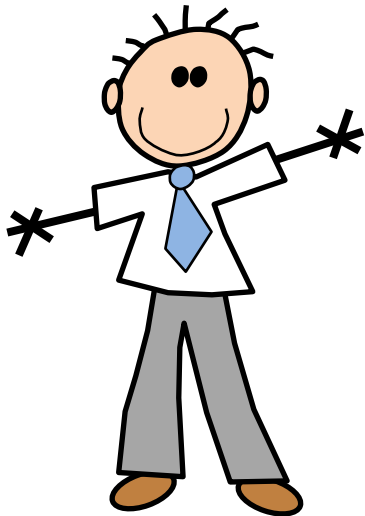
Payments for multi-
service provision:
land use change



Paid Ecosystem Services – IN PRACTICE

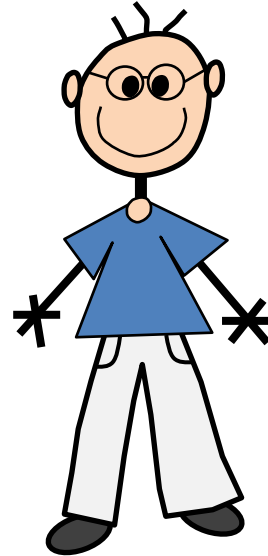


Buyer - SWW



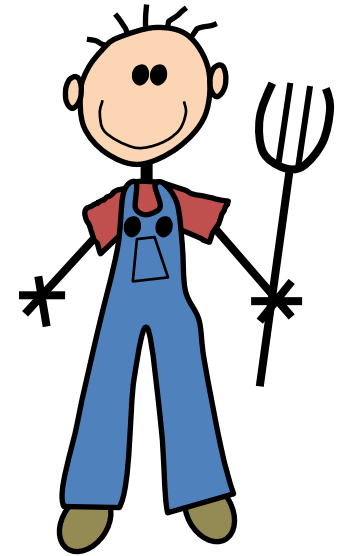
- Estimated cost/benefit ratio
 - Sold to OFWAT
- 65p from bill payers = £9m

Intermediary - WRT



- Ensure works do not degrade other services
- Minimise admin costs
- Monitor concept

Seller - Farmer

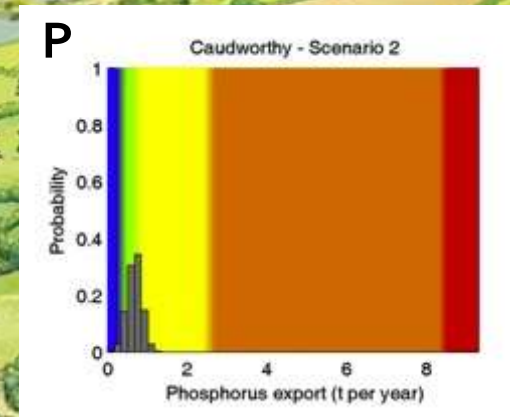
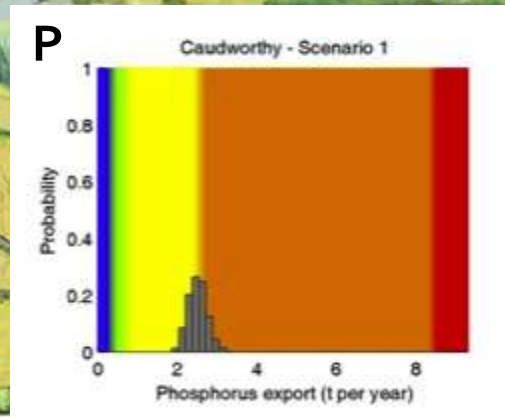


- Instigate works
- Change practices

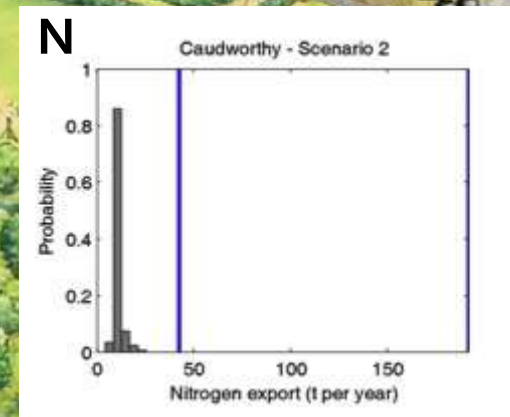
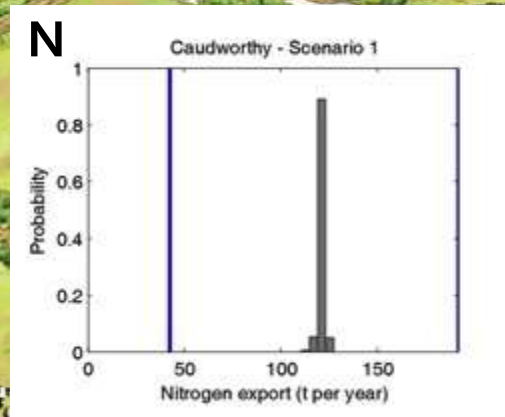
Interventions - £2.2m grant against £4.4m of works



Outcomes



100% up-take



Business cost savings



100 feet

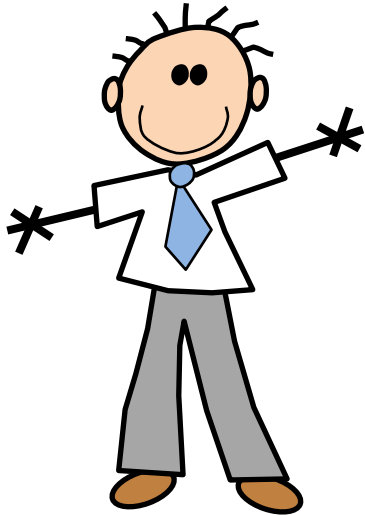
But what about other buyers?



PES – Flood & Catchment permitting

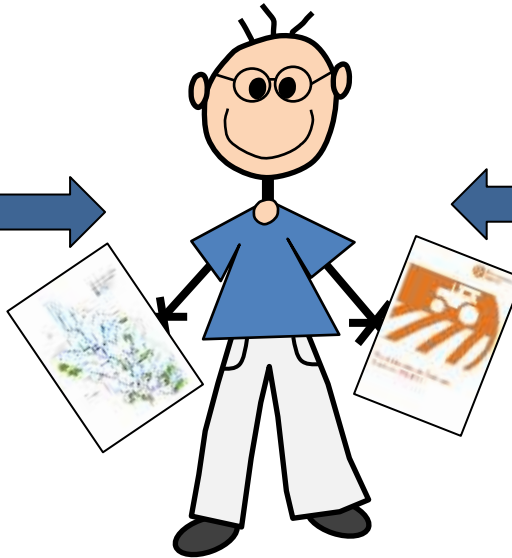


**Buyer – ABI, SWW,
Developers, Government**



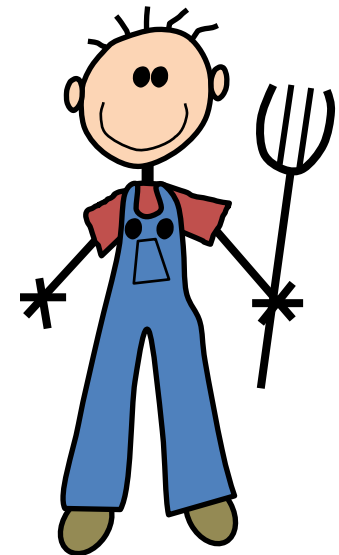
- Wants flood protection
- Reduced water in STW
- Increased development
- Nutrient offsetting

Intermediary - NGO



- Assess rural SUDS options against value
- Assess secondary benefits or dis-benefits

Seller - Farmer



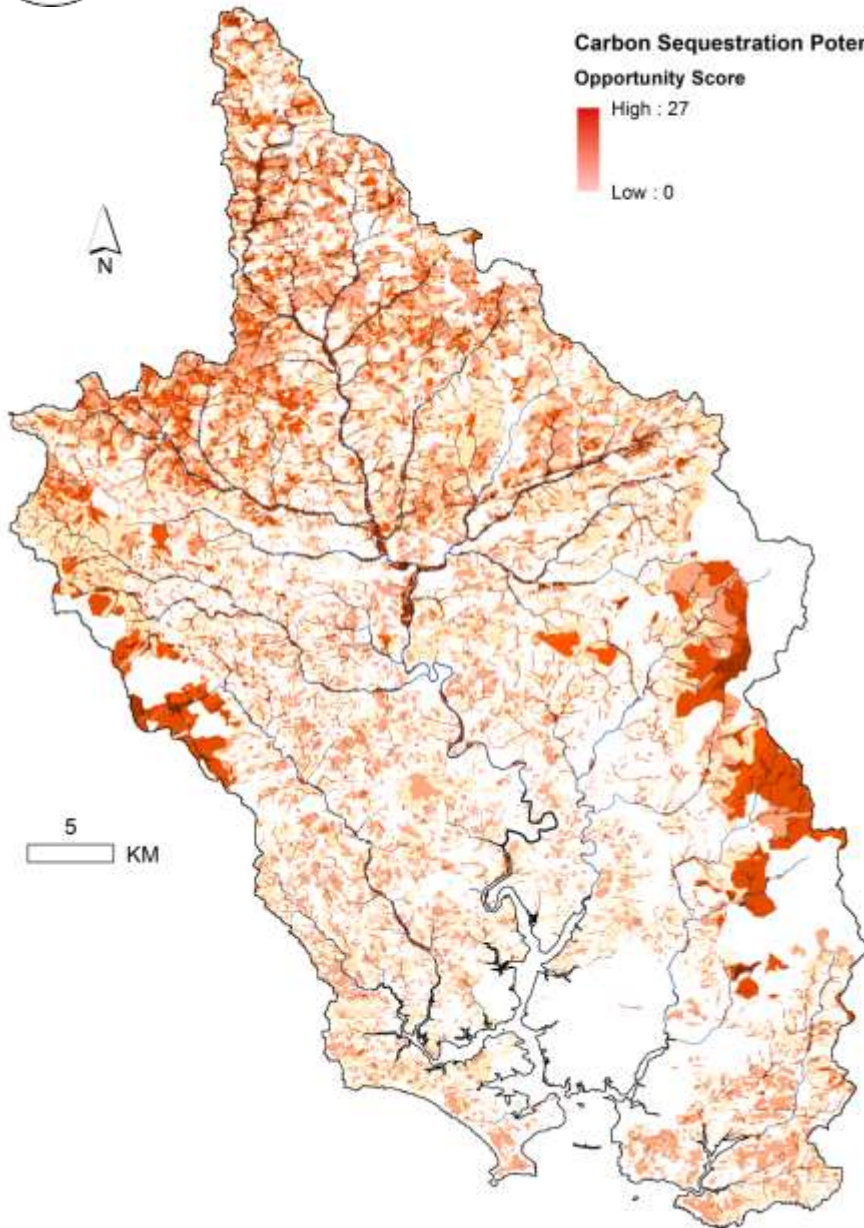
- Help design rural SUDS
 - Submit Bid
 - Change practices



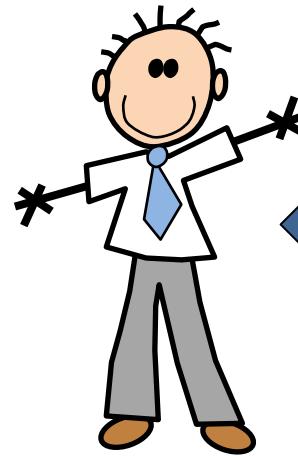
Carbon sequestration



Carbon Sequestration Potential
Opportunity Score
High : 27
Low : 0

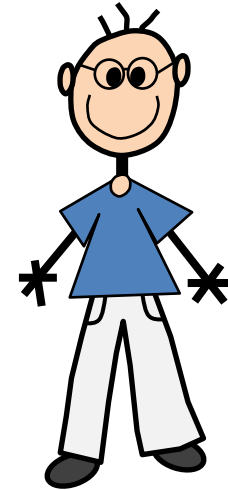


Carbon Offsetter



- Wants to offset remaining carbon after reducing use (Voluntary schemes vs Government schemes)

Intermediary

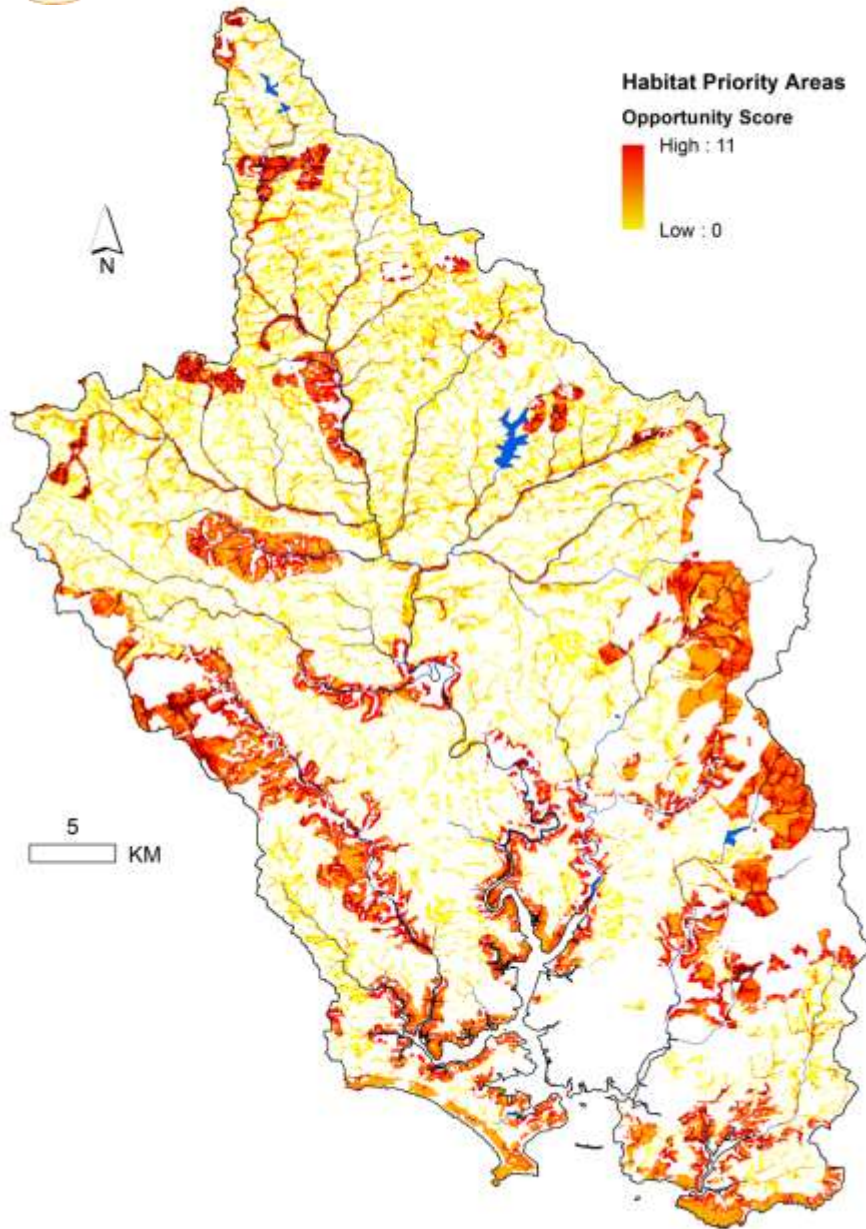


- Identify marketable carbon sequestration solutions that do not degrade other services
- Ensure additionally and longevity of scheme

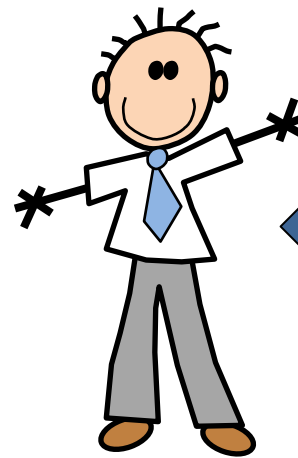




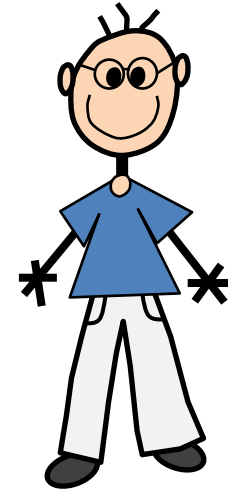
Spaces for wildlife



**Biodiversity
Offsetter**



Intermediary



- Wants to offset any development after investigating ways to avoid and reduce the impact

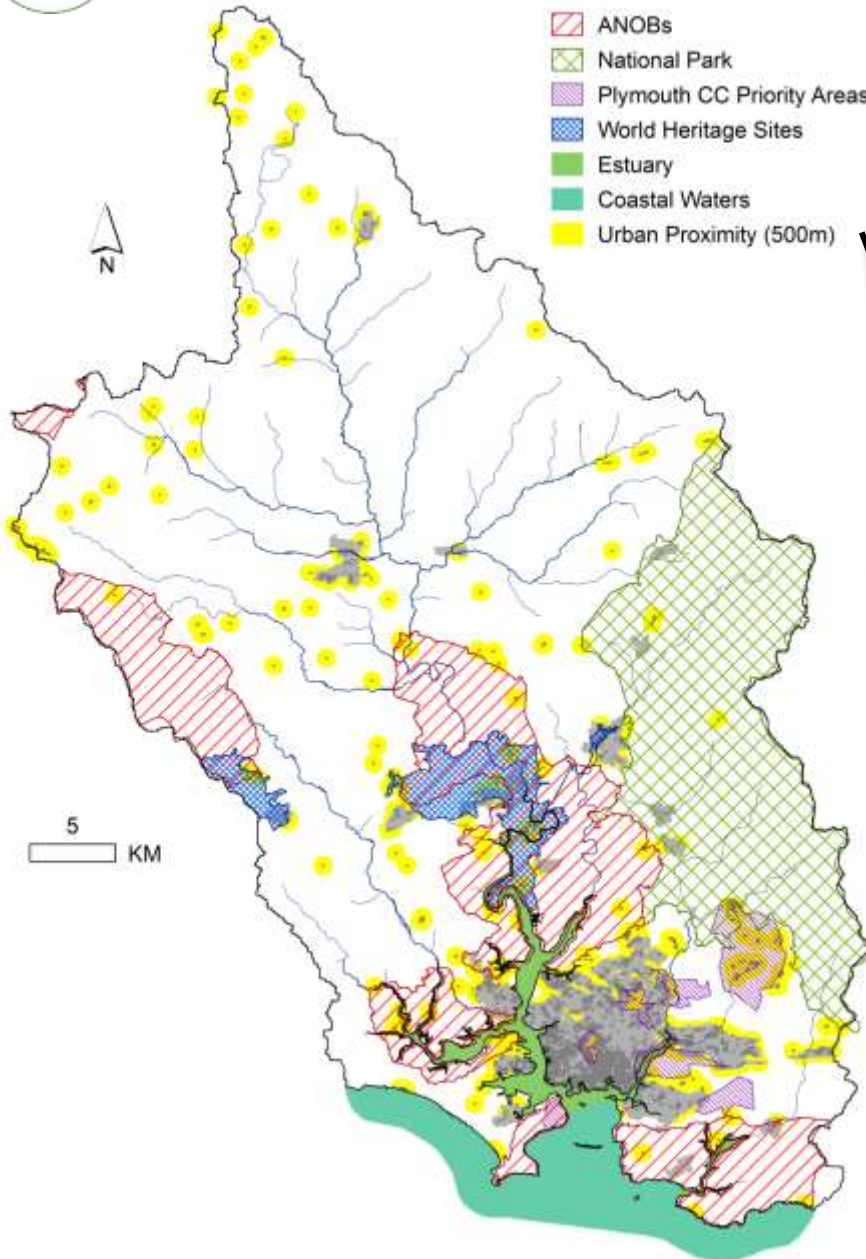
- Identify suitable biodiversity receptor sites that mitigates for the development
- Ensure longevity of scheme



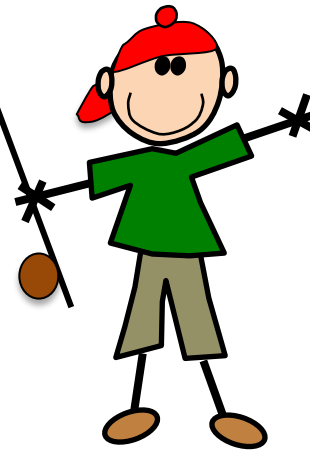
Recreational resources & Tourism



-  ANOBs
-  National Park
-  Plymouth CC Priority Areas
-  World Heritage Sites
-  Estuary
-  Coastal Waters
-  Urban Proximity (500m)

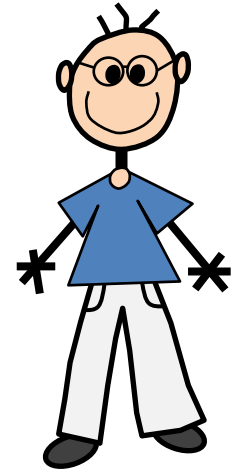


Anglers



- Wants to access new recreational angling sites

Intermediary



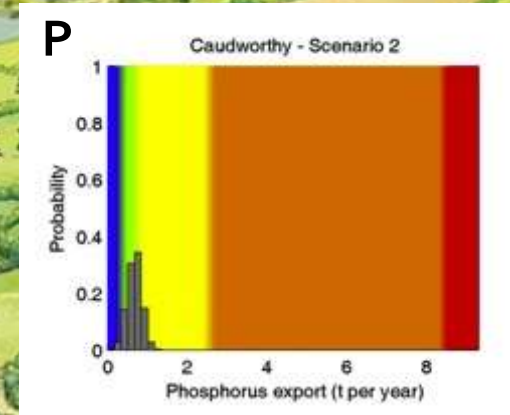
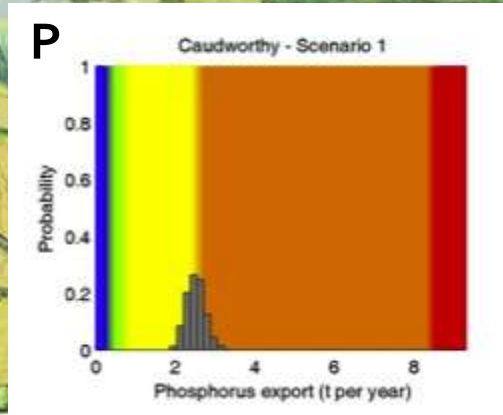
- Identify sites offer wild angling experiences
- Markets new beats



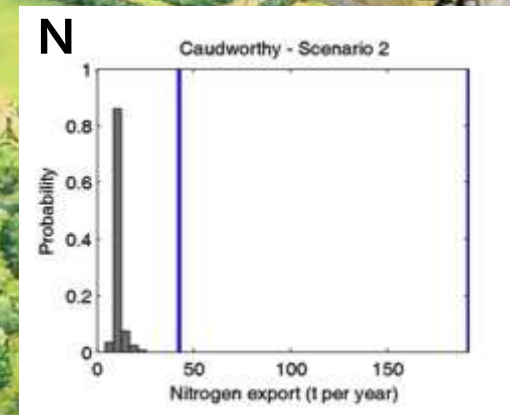
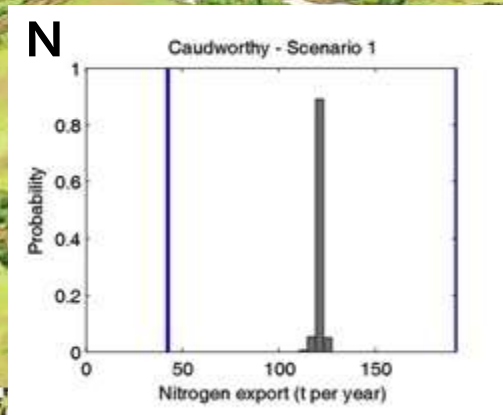
LESSON 1 – Partnership working



LESSON 2 – Monitor Outcomes



100% up-take



LESSON 3 – *Better Information & understanding*



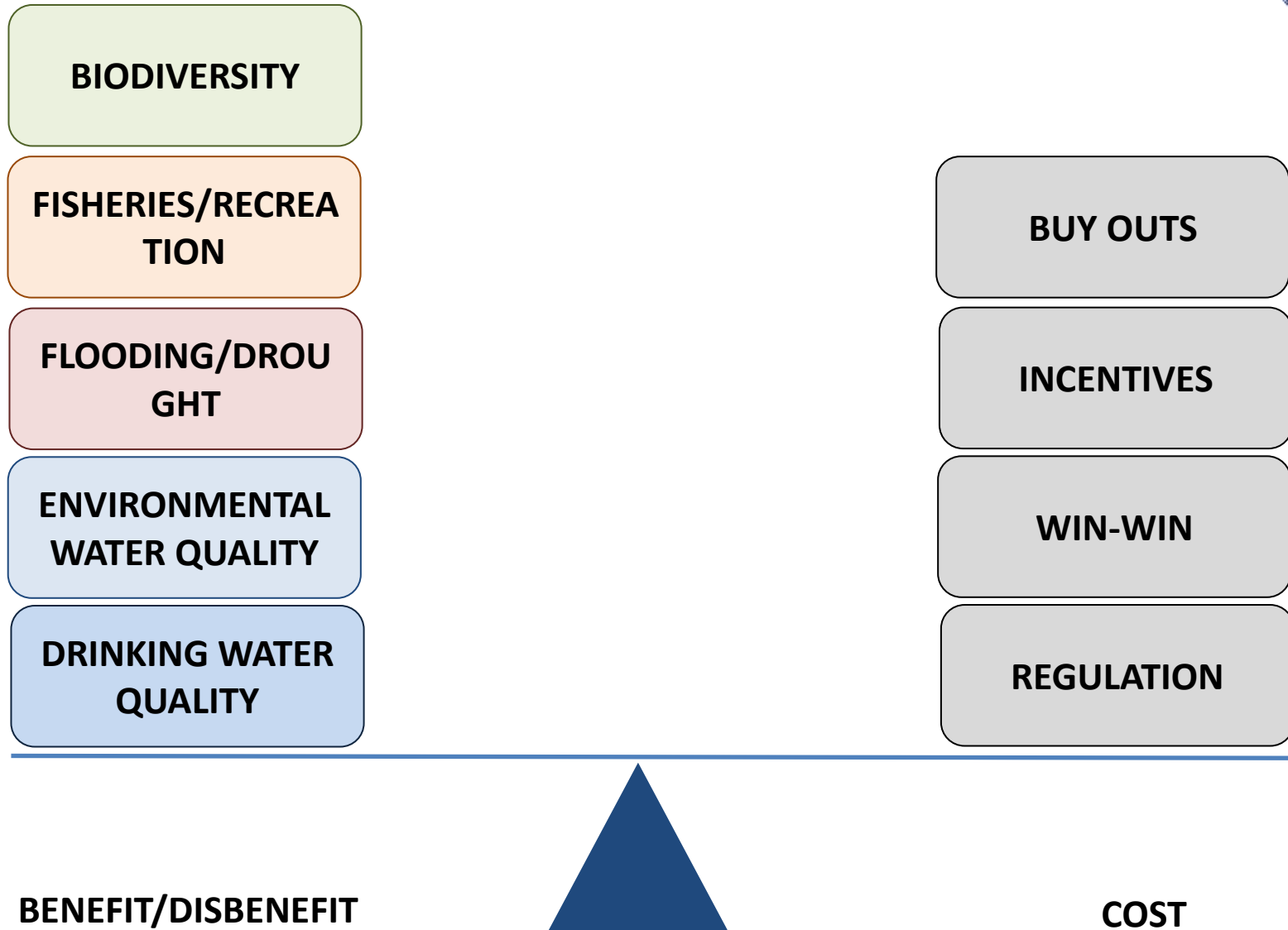
Cost



Benefit



LESSON 3 – Better Information & understanding



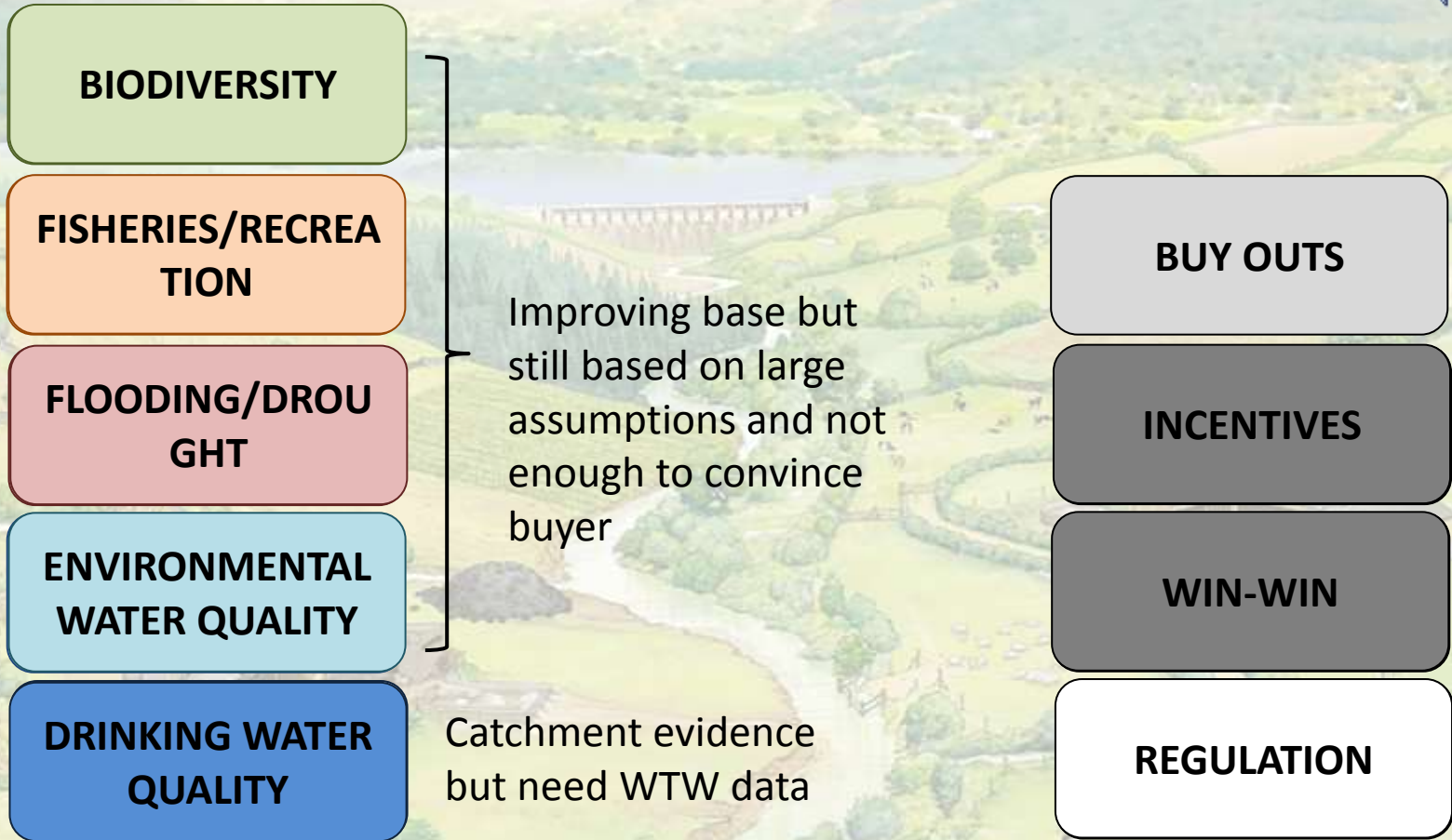
LESSON 3 – Better Information & understanding



BENEFIT/DISBENEFIT

COST

LESSON 3 – Upstream Thinking PR14



BENEFIT/DISBENEFIT

COST

Ecosystem Sustainability Meter

