

Overview of payments for ecosystem services projects, November 2013

Typology provided by Defra's Ecosystems Evidence Team with input from individual projects (November 2013)

											Workshop, 29th November 2013	
Pilot <i>Led by:</i>	Problem being addressed	Ecosystems/ habitats	Ecosystem Services targeted	Providers	Buyers <i>Motivation</i>	Intermediaries	Delivery mechanisms	Payment mechanisms	Outcome/ legacy	Key challenges	Presentation by	Parallel session
Fowey River <i>UEA</i>	Water quality	River catchment	• Water quality	Farmers	South West Water <i>To reduce treatment costs</i>	Westcountry Rivers Trust	Land management changes & farmers' capital investments	Reverse auction	Successful bidders performing actions	Difficulty engaging multiple bidders	Brett Day, University of East Anglia	Session A Lowland and rural
Hull Flood risk <i>Land Trust</i>	Flooding	Urban	• Flood risk; • Biodiversity; • Provisioning; • Landscape	Hull City Council, individual households	Water and Sewerage Undertaker, Hull City Council on households' behalf <i>To avoid upgrading sewer capacity; reduce flood risk</i>	Land Trust, technical specialists, Hull City Council, local non-governmental organisations	Large scale Sustainable Urban Drainage Schemes (SUDS) & greenspace, and street-level SUDS	Council paying using multiple funding sources initially, then layered many-to-many	Council taking the two schemes to implementation	Layering complexity; inability-to-pay; different siloed local authority budgets	Steve Wragg, Hull City Council	Session C Urban and peri-urban
Poole Harbour <i>RSPB</i>	Nutrient discharge prohibiting new development	Harbour, catchment	• Water quality	Land managers	Developers or planning authorities <i>To a low development</i>	Not resolved; could be different organisations fulfilling different	Land management changes	Not resolved. Recent agreements involved mitigation on the same estate, and payment through	Ongoing discussions with West Dorset Council	Length of contracts, different regulation for farmers & developers;	Jack Rhodes, RSPB	Session C Urban and peri-urban
Bristol Avon Rivers Trust <i>BART</i>	Phosphorus discharge	River tributary; country estate	• Water quality; • Flood risk; • Biodiversity; • Provisioning	Tortworth Estate	Wessex Water <i>To reduce treatment costs</i>	Bristol Avon Rivers Trust	Integrated Constructed Wetlands	Potential business case for PES scheme from Wessex Water as part of Price Review 2014 (Ofwat)	Provide concept to apply to other wastewater contexts for water companies	Environment Agency issues on consenting Integrated Constructed Wetlands and flood risk	Mark Everard, on behalf of Bristol Avon Rivers Trust	Session A Lowland and rural
Canal and River Trust <i>JBA Consulting</i>	Multiple ecosystem service risk	Canals, banks, towpaths, Sites of Special Scientific Interest (SSSI)	• Flood risk; • Water quality; • Biodiversity; • Water supply	Canal and Rivers Trust, local authority	Developers, government <i>To facilitate multiple ecosystem service provision across network</i>	Local authority	Land & woodland management, increased dredging	Section 106, Community Infrastructure Levy, ELS, WGS, Conservation and Enhancement Scheme	Under consideration by the Canal and River Trust	Identifying baseline for services; payment mechanisms	Rachel Brisley, JBA Consulting	Session C Urban and peri-urban
Pumlumon Project <i>Montgomeryshire Wildlife Trust</i>	Evaluation of place-based PES	SSSI, river catchment, woodland, scrub, ffrith, wetlands, peat bog, grassland	• Flood risk; • Biodiversity; • Carbon; • Recreation	Landowners	Visitors, Statutory Agencies, Corporate Sector <i>To protect and enhance biodiversity, store carbon, water quality/quantity</i>	Montgomeryshire Wildlife Trust	Land management, improved access, visitor centre for bird watching	PES Scheme facilitated through Management agreements with Landowners for delivery of ecosystem services	Demonstration of success of place based approach and redefining role of landowners in providing ecosystem services	Future funding challenges beyond pilot stage	Clive Faulkner, Liz Lewis Reddy, Montgomeryshire Wildlife Trust	Session B Upland
Peatland code <i>Birmingham City University</i>	Peatland restoration/reducing carbon emissions	Peatland (blanket bog)	• Water quality; • Biodiversity; • Carbon; • Recreation	Landowners/land managers	Business Corporate Responsibility funding <i>To fulfill CSR commitments</i>	Range of partnerships could be involved in pilot projects	Restoring peatland/range of possible land mgmt actions	Peatland code provides enabling mechanism	IUCN launch of pilot code in September in partnership with Defra and its delivery agencies	Robust peat and carbon metrics; extent to which businesses will fund pilot projects	Mark Reed (re. Steve Smith)	(presented in session on standards and tools)
Visitor Payback <i>Birmingham City University</i>	Restoration of blanket bogs and hay meadows, and woodland creation	Peat bog, uplands, moorland, woodland, hay meadow	• Water quality; • Carbon; • Recreation; • Landscape; • Pollination	Moors for the Future, Orton Community Woodland, Culgaith Tam Wildflower Meadow	Visitors <i>To provide particular ecosystem services of interest</i>	Pennine Prospects, Nurture Lakeland	Land management	Donations through smartphone app	Suite of smart phone apps, helpsheets, learning network	Technical issues with app payment functionality, targeting environmental projects that provide measurable ecosystem services	Sophie Cade, Nurture Lakeland	Session B Upland
River Lea in Luton <i>Cranfield University</i>	Degraded river	Urban, river	• Water quality; • Biodiversity; • Carbon; • Recreation	Individual households; Luton Borough Council	Water companies; Luton Borough Council To attract visitors, investment, raise property values, enhance biodiversity,	Luton Borough Council, Environment Agency	Incorporation into planning, dealing with misconceptions, landscape	Local authority and/or charitable grants, utilities funding, agri-environment, corporate responsibility funding	Achieving 'buy in' from local authorities at decision makers level		Tim Brewer & Hayley Shaw, Cranfield University	Session C Urban and peri-urban
Cotswolds Catchment <i>FWAG South West/Countryside and Community Research Institute (CCRI)</i>	The need for a locally relevant PES that delivers for and with partners through the integrated local delivery framework	River catchment, ground and surface waters, biodiversity/ecology, AONB, and food producing farmland	• Water quality; • Biodiversity; • Carbon; • Landscape	Farmers and landowners	Multiple locally relevant buyers PES looking at landuse change in three areas Product, Practice and People	Farming and Integrated Environmental Local Delivery (FIELD) Advisers	Integrated local delivery framework www.ccri.ac.uk/ild	Multiple locally relevant sources linked to parish planning	Researched integrated local delivery framework	Securing funding for facilitation to release locally available funding.	Jenny Phelps	Session A Lowland and rural
South Pennines Ecosystem Services Area Case study <i>Crichton Carbon Centre</i>	1. Development of peat and carbon metrics 2. Approaches for aggregating buyers and accounting for multiple ES	Uplands, peatland	• Flood risk; • Water quality; • Biodiversity; • Carbon; • Recreation	Land owners/managers	Range of public and private sector <i>To deliver a range of ESs</i>	Range of options	Various options from layered to bundled proposed	Various options proposed	Development of peat and carbon metrics that form basis for peatland code	Options for layered and bundled provide a useful guide to some of the options but could be seen as rather theoretical - how to achieve in practice?	Emily Taylor, Crichton Carbon Centre	Session B Upland
Woodland Carbon Code <i>Forestry Commission</i>	Creation of new woodlands for carbon dioxide emissions abatement	Woodlands - upland and lowland	Carbon (very much carbon plus)	Land managers	Businesses, local authorities	Several brokers help to set up projects. Also use the Market carbon registry	Creation of new woodlands	Buyers pay for 'Woodland Carbon Units' (Pending Issuance Units until verified)	Increased business confidence in UK woodland carbon markets	Finding 'patient' buyers. Developing metrics for measuring wider social and environmental benefits	Pat Snowdon, Forestry Commission	(presented in session on standards and tools)