

River and catchment connectivity

Nature Improvement Areas Best Practise Event

Richard Handley
Senior Advisor – National Biodiversity Team



Our priorities

- To manage the use of resources
- Increase resilience to risks of flooding
- Protect and improving water, land and biodiversity
- Work as a regulator to protect people and the environment

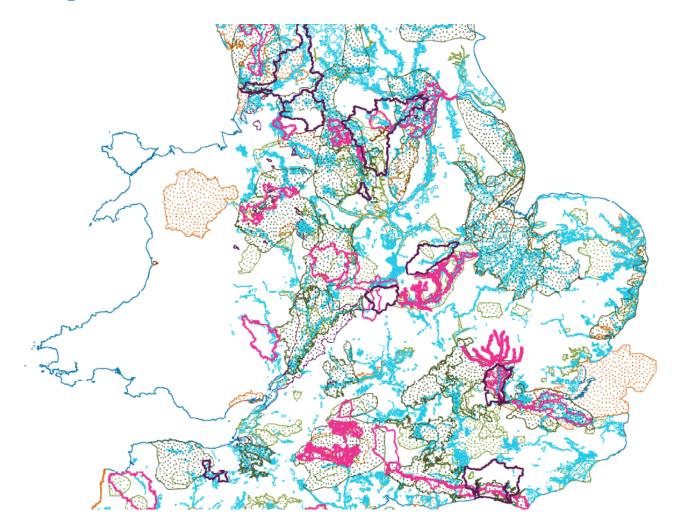


The water environment

- There has been considerable progress
- A range of challenges remain
- We share a vision for the natural environment
- We need to work together now and in the future



Landscape scale initiatives





Synergies

- Delivering multiple objectives
- Delivering multiple benefits
- Bringing together more partners and more resources
- Allowing partners to influence or determine priorities
- Reconnecting people with nature



Catchment based approach

- To deliver positive and sustained outcomes
- By promoting a better understanding of the environment at a local level
- To encourage local collaboration
- More transparent decision-making
- Promote integrated catchment management



River Quaggy at Sutcliffe Park, South London, before and after flood alleviation work





Socio-economic study of the River Quaggy: The average amount of time spent in Sutcliffe Park increased by 44% after 'day-lighting' of the river.





Alkborough Flats





► KILLER FACT from Ecosystem Services Case Studies: 400 ha Alkborough Flats managed realignment scheme cost approximately £10M, provides £12M of protection. Other ecosystems services benefits = app. £1M p.a.





► KILLER FACT from Moors for the Future: restoration of bare and gullied peat alters the storm flow release from headwater subcatchments, reducing peak flows by 30% and increasing the peak flow lag times by

approximately 20 mins.

Operation Peatland, Forest of Bowland



How we are working with NIAs

- Birmingham and the Black Country
 - Two river restoration projects and invertebrate network
- Dearne Valley
 - Transferred management of wetlands to RSPB
- Nene Valley
 - ♠ River restoration, species monitoring, eel passage, INNS
- Northern Devon
 - Creation/restoration of c.1200ha wet grassland, targeted advisory visits, advisory workshops, community engagement















How we are working with NIAs

- Partnership funding
- Issuing consents
- Engaged with Catchment Partnership
- Mapping of projects and opportunities to deliver multiple benefits



How can we improve?

- More consistency in good practise?
- Better defined 'offer' from us?
- Understanding each others priorities?



Thank you

Dr Richard Handley CEcol MCIEEM richard.handley@environment-agency.gov.uk 07770 701941

