



WWNP



Emergency Response



Modelling, Mapping & Data



Property level protection



Planning



Incident Management



Maintenance



Hard defences



Belford - Northumberland





- Cost £300K
- 10000m³ storage
- 30 runoff attenuation measures

Pickering – Yorkshire



- FSA 120,000 cubic metres of flood water
- 100 woody dams
- 25% chance of flooding in any year, reduced to a 4% chance or less.

Holnicote Estate – North Devon





- Cost £135K
- WWNP measures estimated to reduced flood peak by 12%

Evenlode – Honeydale Farm



- Partnership project Cotswold Seeds & Rivers Trust
- Capture the flow upstream to reduce flooding further downstream
- Used small leaky dams known to store and slowly release water

Lustrum Beck – Stockton on Tees

Catch 1

Catch 2

- Catch_3

Catch_4

- Catch 5

- Catch 6

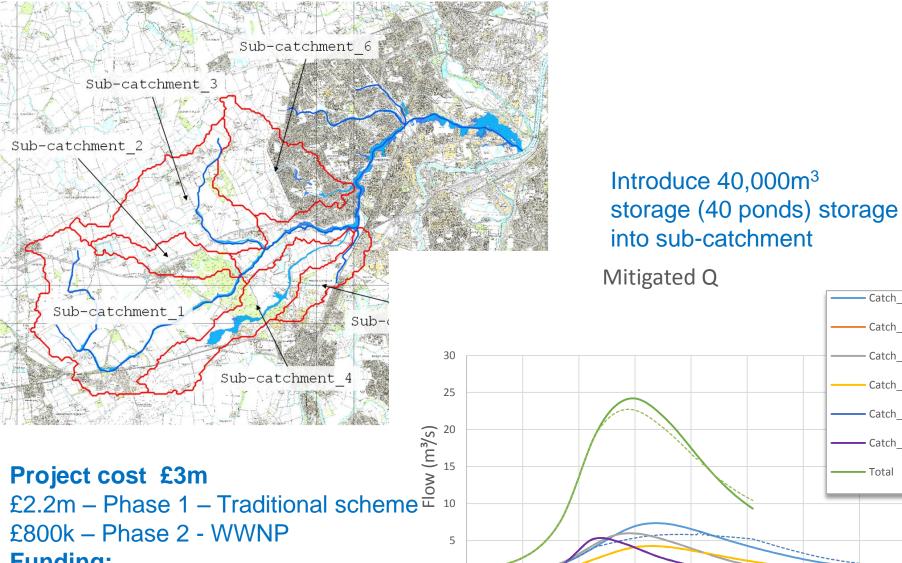
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Total

30

Timed(hrs) 25

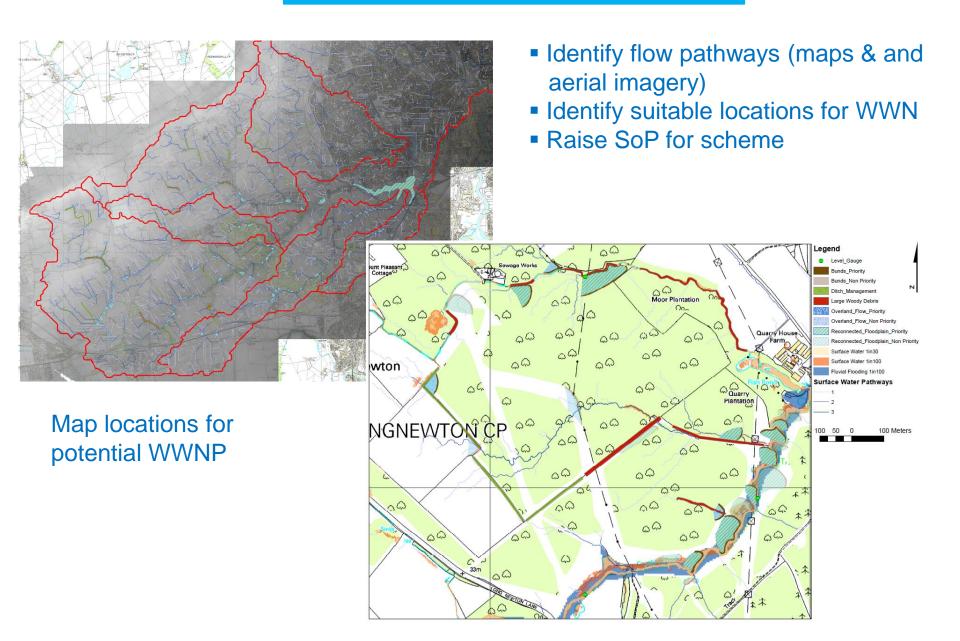
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Funding:

£1.8m FDGiA, £800K Local Levy £400k Local Authority Contribution

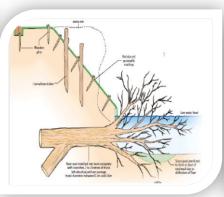
Lustrum Beck – Stockton on Tees



Past & Current R&D



Healthy Catchments



River Restoration



Aquatic Plants



Channel Management

Practical Guidance



Woodlands 4 Water



Catchment Processes

Decision Support



Poole Beach recharge

Testing new approaches

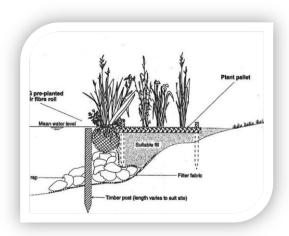
Maps & Models

Next Year's R&D



1. Catchment Laboratories

- Collate existing case studies
- Technical design guide
- GIS-based opportunity maps
- Future opportunities



2. Green Engineering

- Engineering guidance
- Information on whole life costs
- Decision-support tool





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http://evidence.environmentagency.gov.uk/FCERM/en/Default/FCRM.aspx