The costs and benefits of improving England's water environment

Impact assessment and use of disproportionate cost exemptions

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- Context setting
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 - Purpose and aims
 - ➔ In brief (principles, method and data)
- Catchment economic appraisals



Context setting: implementation of WFD in England

- The Environment Agency is the competent authority for producing river basin management plans
- The plans cover 8 river basin districts, 4,950 water bodies within 117 management catchments
- Preventing deterioration is a key focus
- Government Ministers need to approve the updated plans
- 100 local catchment partnerships
- Privatised, regulated water supply and sewage treatment sector
- Very engaged environmental stakeholders

Economic analysis in England

Robust evidence base to:

- Identify cost beneficial measures
- Support decisions on disproportionate costs and use of exemptions
 - extend deadlines
 - set less stringent objectives
- Help Ministers understand the implications for different sectors and the environment
- Considerable stakeholder interest in measures and their costs and effects

Economic analysis in England







Data and method

- Nationally held information programmes of measures, costs and benefits for protected area and no deterioration measures
- Catchment economic appraisals aggregated cost and benefits of getting to/towards good status
- Shown and reasonably secure funding realistic short term funding profile – used to inform the 6 years of the proposed option (2015 – 2021) only



Catchment econ

- Determine if the 'cost measures for a catc
- Costs:
 - Local (preferably)
 - National estimates
- Benefits:
 - Ecosystem service impacts captured (qualitiative)
 - Monetised benefits ('cultural and quality of life benefits)

Monetised costs

- Uncertainty
 - Sensitivity analysis



Wider benefits

Monetised

benefits

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Scale and resources

- Over 300 (draft and updated)
- Most detailed assessment of the costs and benefits on proposed environmental improvements in England that has ever been undertaken
- Guidance and analysis tools for use by noneconomists
- Super user network (2013 = 7, 2015 = 20)
- Quality assurance programme of 10% appraisals
- Built staff capacity
- €1.5m €2m in staff time



Thoughts...

- Significant step forward to encompassing ecosystem services (multiple benefits) in the evaluation of the water environment
- Evidence will support the political judgement and decisions about overall funding
- Local level analysis provides greater detail and promotes ownership (vs. data quality/consistency)
- Early engagement promotes buy-in



Questions

England's impact assessment to support the updated plans will be published at the end of October 2015

