#### Integrating Cumulative Effects in Water and Spatial Planning

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### Outline

- 1. CEA context in UK
- 2. The EU Water Framework Directive
- 3. River Basin Management Plans
- 4. Linking CEA of the water environment and spatial planning







#### **UK Guidance and Practice**

- A Practical Guide to the SEA Directive
   CEA in Appendix 8 covering assessing secondary, cumulative and synergistic effects.
- Tick box approach in a general environmental effects matrix:
   ☑ Landscape
- ⊠ Health
- Boundary issues plan rather than environmental effect





# Cumulative effects on water in spatial planning

- Lack of integrated water policy
  driven by national flood policies.
- Timing of water and spatial plans not aligned.
- Water cumulative effects rarely considered.
- Development in water stressed areas led to site specific water policies / design guidance.





#### The EU Water Framework Directive

- European Directive 2000/60/EC
  - protect all waters (rivers, lakes, coastal waters, and groundwaters)
- It will achieve this via:
  - Environmental objectives (Article 4);
  - Introducing river basin planning and River Basin Management Plans;
  - Controlling pollution from all sectors;
  - Participation of all stakeholders.







#### **River basin planning is CEA**

The river basin planning process:

- 1. Identifies both the broad significant water management issues in the area and waterbody specific problems.
- 2. Determines the cause of problems, many of which are the result of complex / cumulative interactions.
- 3. Defines current status allowing objectives for improvements to be established in each waterbody.







# How can River basin Planning assist wider CEA practice?



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1. Improve baseline information for CEA of plans and projects.

2. Establishing environmental limits.

3. Identifies cause of complex cumulative effects to water and improvement actions.



#### **River Basin Management Plans**

## Actions in the PoM will require partnership working to achieve environmental improvements









#### CEA within the SEA (1)

#### Intra-RBMP Cumulative Effects (within the plan)

- The environmental consequences of the interaction between actions set out in the PoM.
- Scenarios:
  - A. Future state of environment without RBMP (current actions and inevitable future actions),
  - B. Proposed new actions that will go ahead if plan approved
  - C. Further actions that may go ahead if certainty increased





#### CEA within the SEA (2)

#### **Inter-Plan Cumulative Effect**

- The environmental consequences of interactions between the RBMP and other regional plans.
- Four relevant plans selected:
  - Regional Spatial Strategy
  - Regional Economic Strategy
  - Water Company Resource Management Plans
  - Catchment Flood Management Plans
- Opportunity for consultants to select an additional regionally specific plan type for assessment.





### Linking the water environment to spatial planning (1)



Discussions and partnership working between different sectors to promote multiple actions to resolve cumulative environmental problems in waterbodies.





# Linking the water environment to spatial planning (2)

- The Plan & SEA help plan-makers and EA professionals identify cumulative environmental effects (i.e. beyond the plan boundary).
- **But** delay to realisation as regional and local plans are already well developed.
- Guidance and training will also be needed to change the mindset of planners.







### Summary

RBMP improve basis for CEA via:

- Improved baseline for water environment,
- Establishing environmental limits,
- Identifying causes of cumulative environmental effects.

But the plan can have its own cumulative effects Identified and managed by CEA within its SEA.





#### **Any Questions?**

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