Changing subsea-scapes: Scenarios for the Environment

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The challenge

JNCC has responsibility for offshore marine nature conservation, including identifying, monitoring and advising on how protected areas are run and providing advice on the impacts of offshore industries.

For decommissioning this includes understanding:

- **Impact on**
  - Seabed habitats
  - Artificial habitats

- **Infrastructure**

- **Impact on MPAs**

- **Legislation / consenting processes**
MPAs vs outwith MPAs

MPAs
- Primary nature conservation obligation is to conserve / recover designated features
- European / national assessments related to sites and wider network of MPAs

Non MPAs
- Nature conservation obligations through OSPAR T&D, NERC Act, marine plans
- EIA considerations
- Wider scale of interest, eg oil and gas networks, MSFD
Surface structures / pipelines

THE PRINCIPLE
Full removal to clean seabed

THE PRACTICE - STRUCTURES
• Disturbance of drill cuttings
• Protected species / habitats on infrastructure?

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Buried pipelines

THE PRINCIPLE
Leave in place
Quasi-clean seabed

THE PRACTICE
• Potential for future spanning – need understanding of historic movements
• Monitoring responsibilities
Partially buried pipelines

THE PRINCIPLE
Case by case – leave seabed in best condition whether bury or remove

THE PRACTICE
• Reportable spans / surface exposure
• Likelihood of future spanning
• Potential monitoring responsibility
• How to resolve in mobile sediments

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THE PRINCIPLE
Case by case – leave seabed in best condition possible whether bury or remove

THE PRACTICE
- Structural integrity of types of mattresses
- Technical feasibility of removing mattresses
- Habitats and ecosystem services provided
- Total energy / waste budgets

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Questions

- Assessment in mobile sediments / patchy habitats
- Differences in assessment of NNS / CNS / SNS
- How to focus assessment on habitats and features of conservation interest
- Understanding the MPA ecological network coherence compared to potential wider ecological network of in situ infrastructure (MSFD)
- The role of ecosystem services in assessing decommissioning options, especially in MPAs