



Gaps and priorities in sea basin observation and data

North Sea Check Point kick-off meeting

2nd December 2013

Marie Pendle

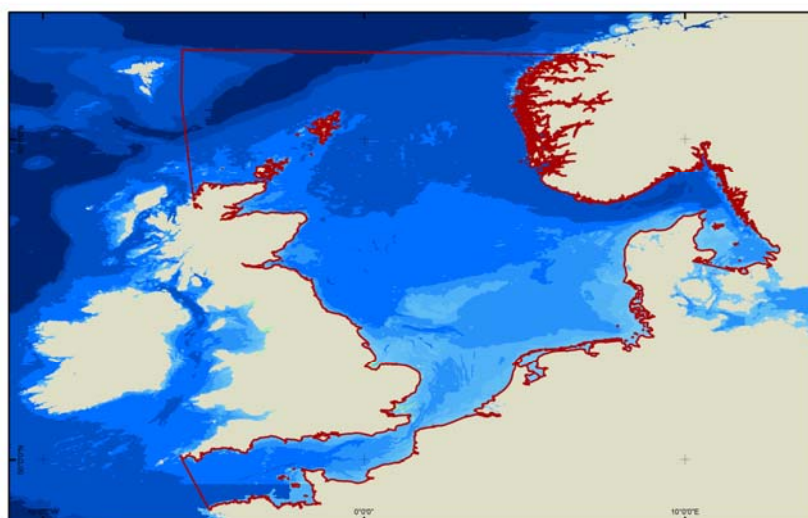
Growth in marine and maritime sector is reliant on innovation
 Innovation needs a robust and accessible knowledge base
 Private industry and public sector require access to marine data

This project supports sustainable growth through

- Looking at the decisions to be taken and the underpinning information to support these decisions
- Improving the accessibility and provision of marine data
- Not just appraising data gaps, but also the gaps in collecting data
- Providing information to improve future marine observation programmes

The objective of the project is to "examine the data collection, observation and data assembly programmes in a sea basin, analyse how they can be optimised and deliver the findings to stakeholders through an internet portal." This will be delivered by the following key tasks:

1. Undertake a literature survey looking at the findings of existing studies with respect to data adequacy for the North Sea basin
2. Undertake a series of challenges designed to test the adequacy of data currently available for the North Sea basin across a range of applications
3. Provide feedback on the adequacy of data employed for each of the challenges alongside the delivery of their outputs.
4. Develop a project website to facilitate communication with DG MARE and between project team members during the project, centralise the management of data used during the project and provide a catalogue of metadata on outputs from the project
5. Disseminate results to an expert panel and to the maritime community to optimise the results generated from the literature survey and each of the challenges.



Growth and innovation in ocean economy - Gaps and priorities in sea basin observation and data, Lot 1

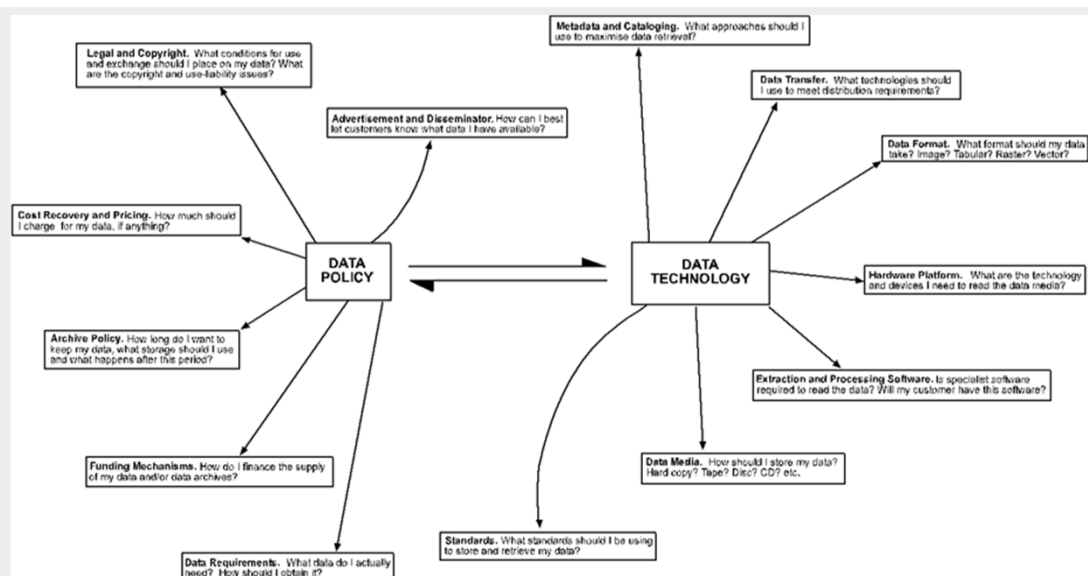
Proposal for DG Mare:
Geographic scope of project

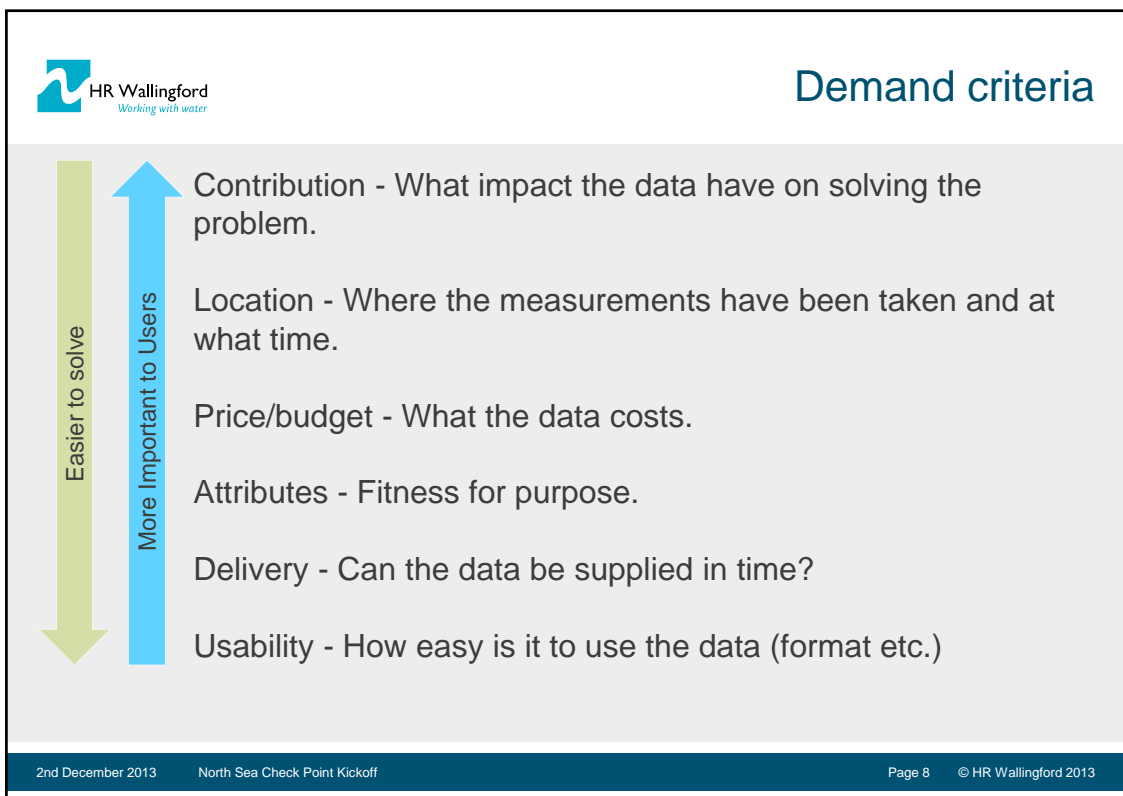
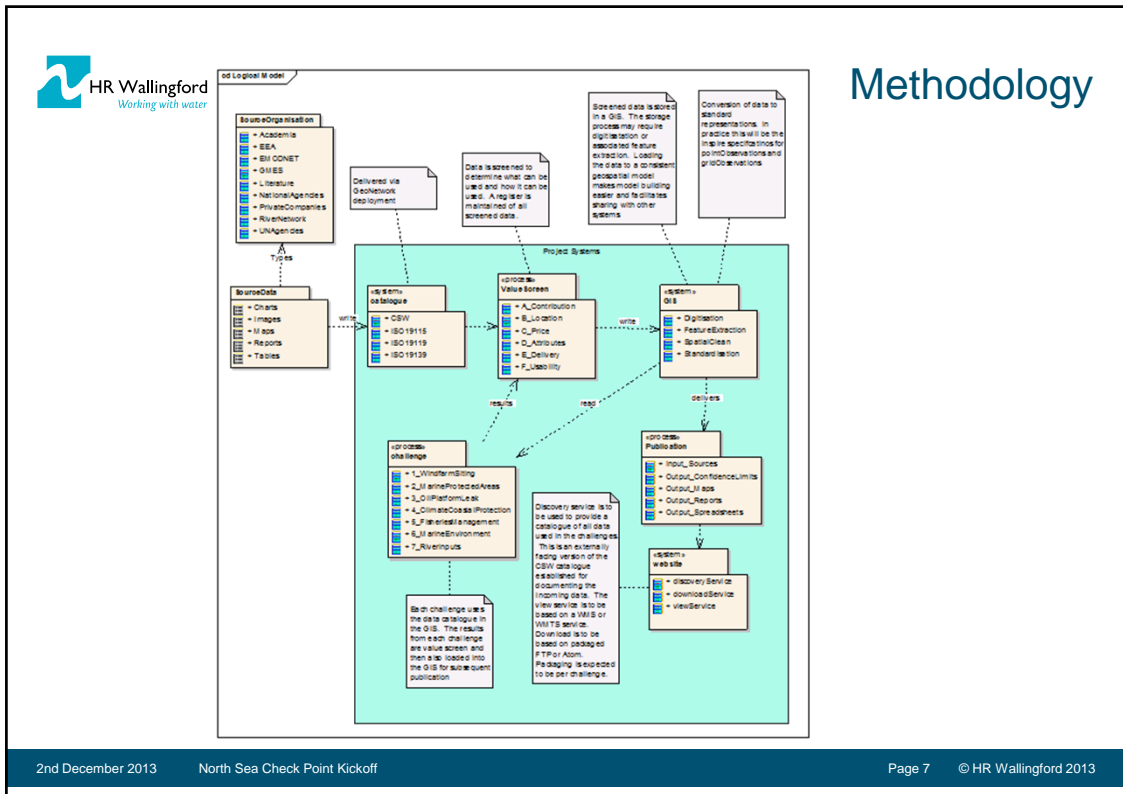



Obstacles for using marine data

- Existing data is not always readily visible
- Data are hidden with over-restrictive access and re-use conditions
- Standards are fragmented between different data sets
- Related data sets can be assembled in different formats and using different nomenclature
- Quality of data is not always known
- Unrealistic costs to obtain data
- Insufficient temporal or spatial resolution

Obstacles to Marine Data Use and Exchange








Envisaged Assessment Form

Challenge Name: [name of challenge]		Input/Output [delete one]
Data Set Name: [meaningful name]		
Demand	Assessment	How to Improve
Contribution	[output from demand assessment]	
Location	“	“
Price Attributes	“	
Delivery	“	“
Usability	“	
Overall Recommendations: [what should be done in respect of the dataset]		

2nd December 2013 North Sea Check Point Kickoff Page 9 © HR Wallingford 2013



Summary of Work Packages

WP1	Literature Survey
WP2	Challenge 1: Wind Farm Siting
WP3	Challenge 2: Marine Protected Areas
WP4	Challenge 3: Oil Platform Leak
WP5	Challenge 4: Climate and Coastal Protection
WP6	Challenge 5: Fisheries Management
WP7	Challenge 6: Marine Environment
WP8	Challenge 7: River Inputs
WP9	Website Development and Maintenance
WP10	Organisation of Panels
WP11	Data Adequacy Reports
WP12	Project Management

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1. Data Sourcing - is there an overview of data availability?
2. Data Coverage - if we have an overview then how complete are the data? Is incompleteness due to reluctance of data-owners to release data or because of a lack of measurements?
3. Data Applicability - are there any statements made as to fitness for purpose – e.g. for fish stock or environmental assessments, for spatial planning, for licensing, for coastal protection.

Objective:

- Summarise findings of existing studies relating to the adequacy and data available for the North Sea Basin

Tasks:

- Collate documents
- Review literature – include data sourcing and availability, data coverage, data resolution and fitness for purpose
- Produce a report of results outlining the conclusions
- Deliver in Month 9 of the project (July 2014)

From proposal:

- Literature review is not comprehensive, i.e. does not identify all available data sources
- Required input data is not obtained within required timescale
- Required input data is protected by the Data Protection Act
- Required input data is privately owned and not publicly available
- Unforeseen or unreasonable costs associated with accessing the data

Reports from EMODnet and GMES projects
Reports from other EU data initiatives
Reports from regional sea conventions and MSFD working groups
Reports from national data initiatives
Scientific literature from web-based library portals
Any other sources identified (grey literature challenge?)

Are studies identified which have direct relevance to particular challenges (e.g. WINDSPEED for the wind farm siting challenge)?

Is there an overview of data availability, or do the diverse sources make discoverability challenging?

How complete are datasets?

Does some data exist that owners do not wish to publicly share?

Do data have accompanying statements of fitness for purpose?

Starting point for individual challenge data collection

Understanding the adequacy of data available in the North Sea as currently described

Consider whether previous studies took into account all data parameters of relevance (e.g. discoverability, metadata information, accessibility, purpose, spatial coverage and resolution, compatibility with other datasets, quality assurance)

Report of findings



m.pendle@hrwallingford.com

