# Improving business practice and costs through data-sharing: industry feedback on ATLAS outputs

## ATLAS 5th General Assembly

## 10 March, 2020

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+WP leaders

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# ATLAS Expected Impact:
# Improve resource management and governance

ATLAS would help to implement the EU Directive on  Maritime Spatial Planning (2014/89/EU)

Identifying data-sharing opportunities implements:

Art. 9: ensuring stakeholder involvement

Art. 10: organises use of best available data

# Industry – ATLAS data-sharing (D6.4)

- In Europe alone, private companies spend > 3 Billion Euros on marine data (purchasing it, processing it, collecting it, making it inter-operable, etc.)

- Between 2017-2019, ATLAS organised 3 international industry workshops and 2 questionnaires on data-sharing and relevance of ATLAS outputs that have been made open-access or available to date

- Our focus today is primarily on feedback received about how relevant our outputs have been to our Industry Advisory Board members operating in our case study areas (Section 2 of one of these questionnaires)

atlas

Marathon Oil

BMT Cordah

Hartley Anderson

THE DATA LAB

Department for Business, Energy & Industrial Strategy

MEDIN

bp

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SAMS

THE UNIVERSITY OF EDINBURGH

Cefas

deep tek

OGIC
Oil & Gas Innovation Centre

# (Initial Scoping) Blue Growth Data Workshop

St Leonard's Hall, Edinburgh, 7th February 2017

WAGENINGEN UNIVERSITY & RESEARCH

marinescotland

Scottish Government gov.scot

Gardline

EMODnet
European Marine Observation and Data Network

BGS 1835

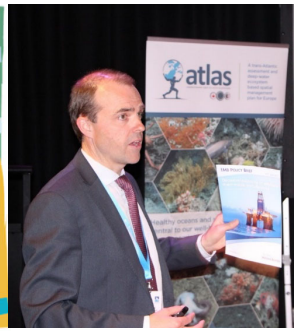
National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

www.eu-atlas.org

## Further scoping of data-sharing challenges with offshore industries

Outcomes of workshop highlighted at 2 separate workshops with ATLAS during European Maritime Day in 2017

Speakers at the 2nd workshop included Niall McDonough (Executive Secretary, European Marine Board), Richard Heard (Programme Director, INSITE), Mark Johnston (BP), Chelsea Bradbury (Marine Data Advisor, Crown Estate), Silvia Camporeale (Researcher, Università Bicocca Milano – Territorial Economy (CRIET) for the Italian Ministry of Economic Development) and Valter Martinotti ("Safe and Sustainable Decommissioning" Project Manager, the Italian Ministry of Economic Development). The session was chaired by the ATLAS Coordinator Murray Roberts.



Marine Policy 97 (2018) 130–138

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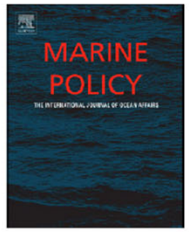
journal homepage: www.elsevier.com/locate/marpol




# Data challenges and opportunities for environmental management of North Sea oil and gas decommissioning in an era of blue growth

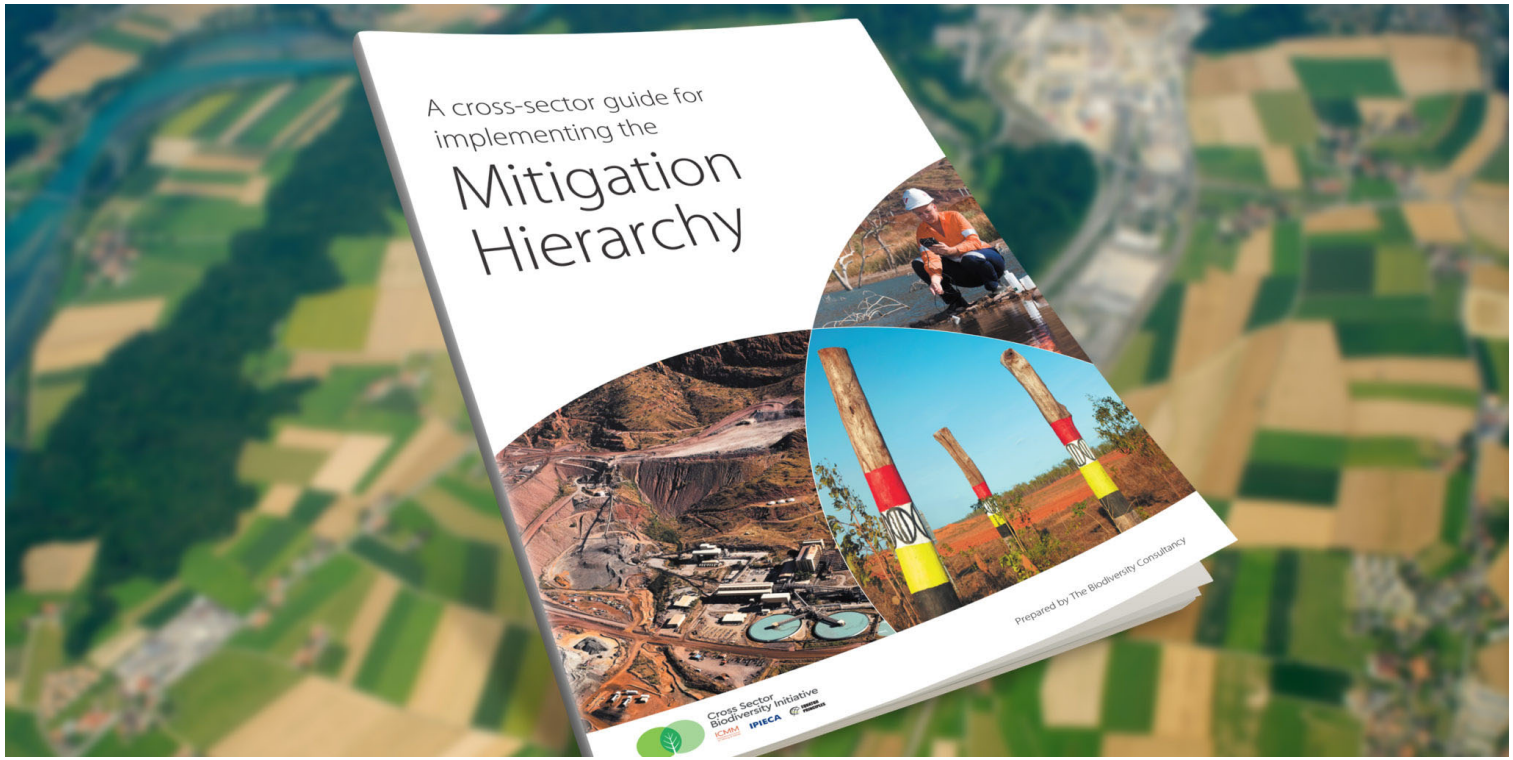
Fiona Murray[a,*], Katherine Needham[a,b], Kate Gormley[c], Sally Rouse[d], Joop W.P. Coolen[e,f], David Billett[g], Jennifer Dannheim[h,i], Silvana N.R. Birchenough[j], Kieran Hyder[j], Richard Heard[k], Joseph S. Ferris[l], Jan M. Holstein[h,i], Lea-Anne Henry[a], Oonagh McMeel[m], Jan-Bart Calewaert[m], J. Murray Roberts[a,*]

*"Active and transparent communication and collaboration between stakeholders including industry, regulatory bodies, data portals and academic institutions will be key to unlocking the data that will be critical to informing responsible decommissioning decisions for offshore oil and gas structures..."*

# Supporting Blue Growth workshop, Dublin, December 2019

National and regional marine planners, authorities, and offshore sectors

**Coming back to industry feedback on how relevant our outputs have been to industry…**




How can ATLAS outputs help industry to:

Avoid

↓

Minimise

↓

Restore

↓

Offset

# 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

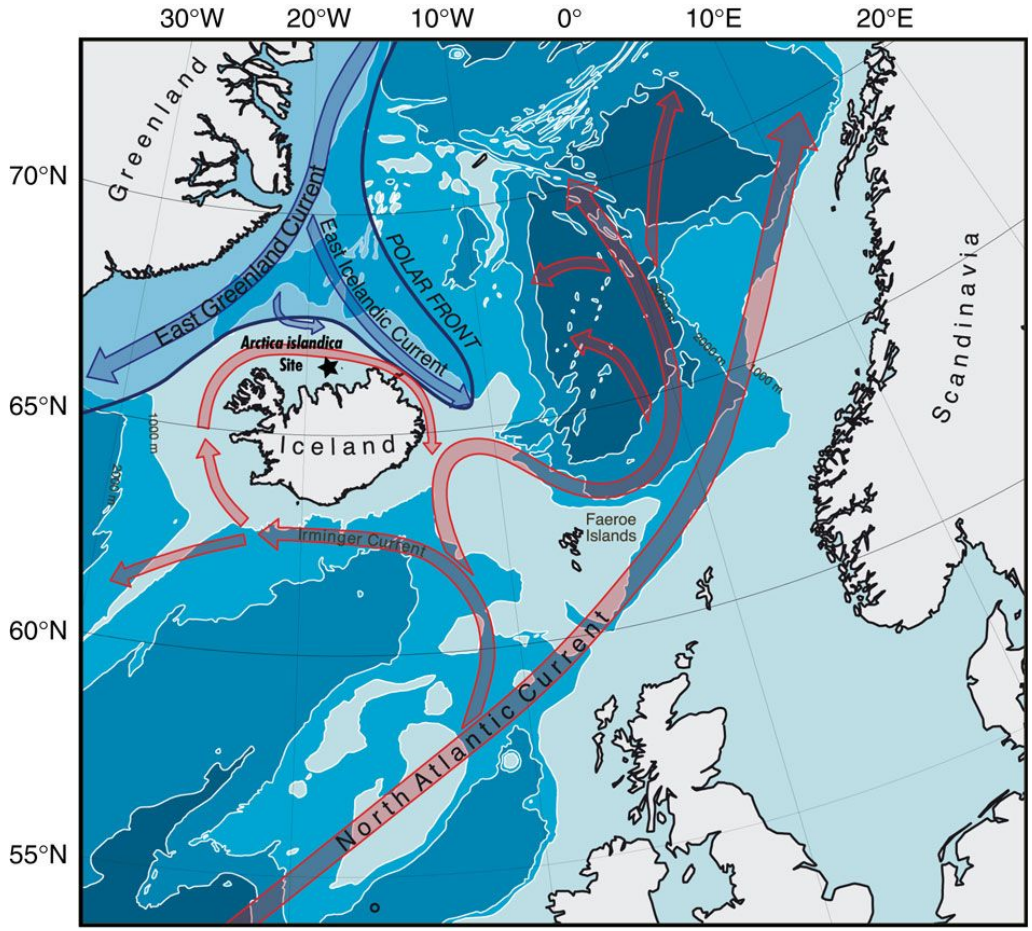
Scale of 1 – 5
(Not at all relevant – Highly relevant)

# 2-part Questionnaire to ATLAS Industry Associate Partners

**Ocean Dynamics**

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**4/5** – safety risks but also to understand vulnerability of deepwater ecosystems to pressures



# 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

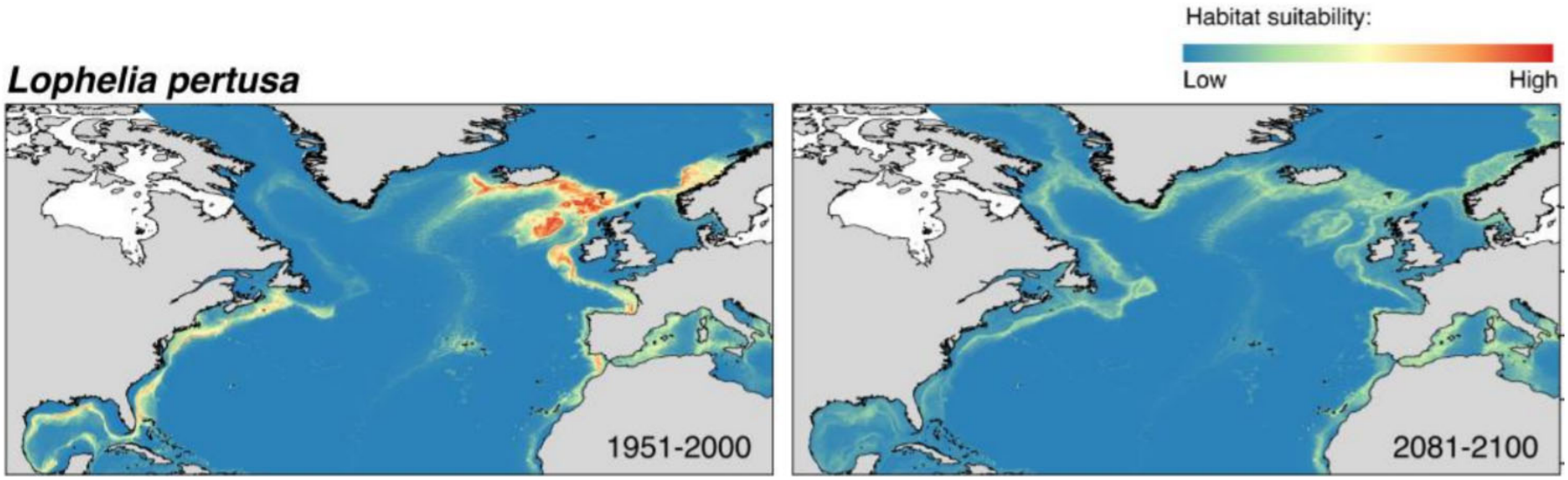
**3.25/5** – water column and near seabed hydrodynamics could help with spill/dispersal modelling; effects of dispersants; more relevant to understand impacts of climate change

**Ecosystem Function**

## 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations
for the mitigation hierarchy

**Biodiversity & Biogeography**



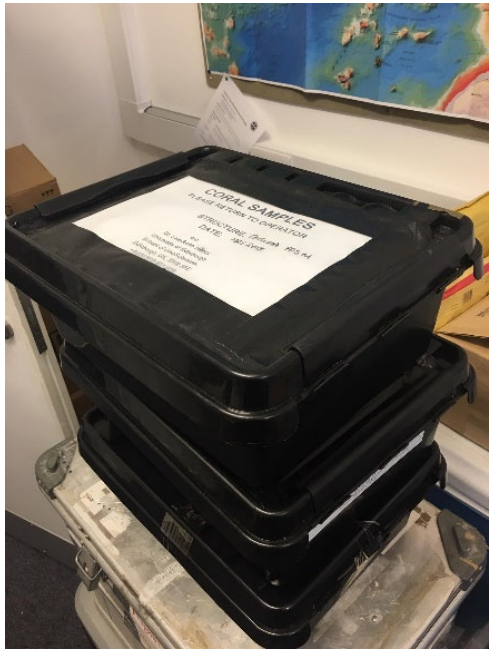

**3.7/5** – maps that predict distribution of 12 vulnerable species and unique/sensitive areas highly relevant to project design and avoidance, important for authorities too. Natural variability also relevant.

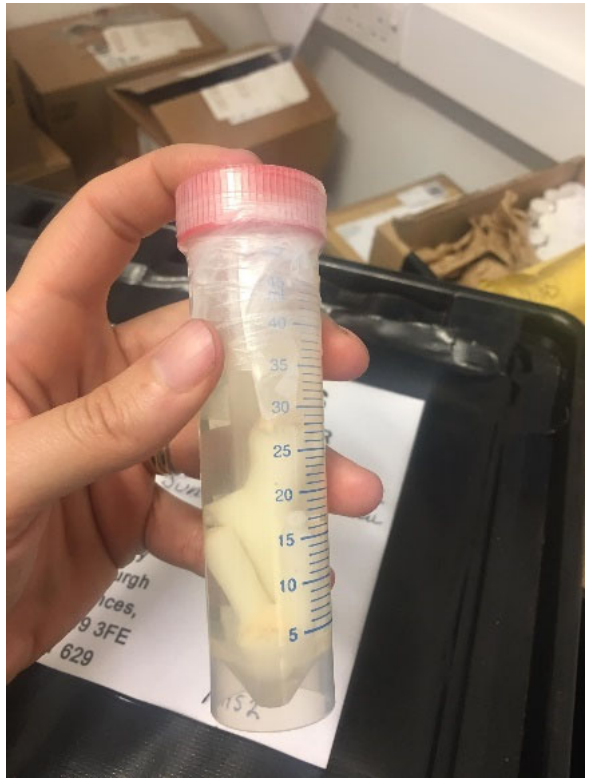
# 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**3/5** – cost-effective sampling methods are welcome (new lab protocols, RADsequencing, eDNA, offshore sampling kits)

**Connected Resources**

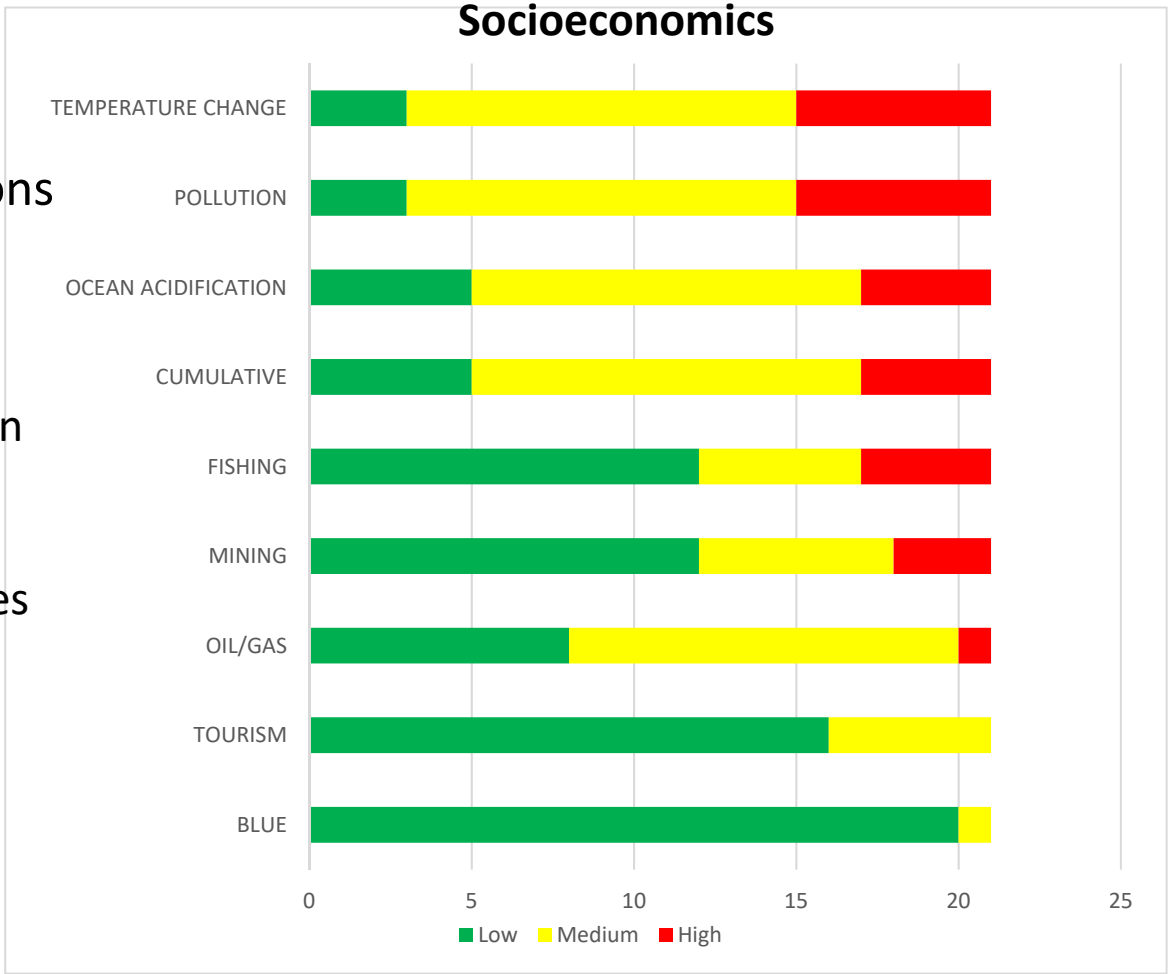


# 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**2.5/5** – the public's willingness to pay for deep-sea conservation and expert risk assessments are somewhat relevant, but better knowledge of ecosystem services highly relevant as these are usually poorly assessed in EIAs/ESIAs

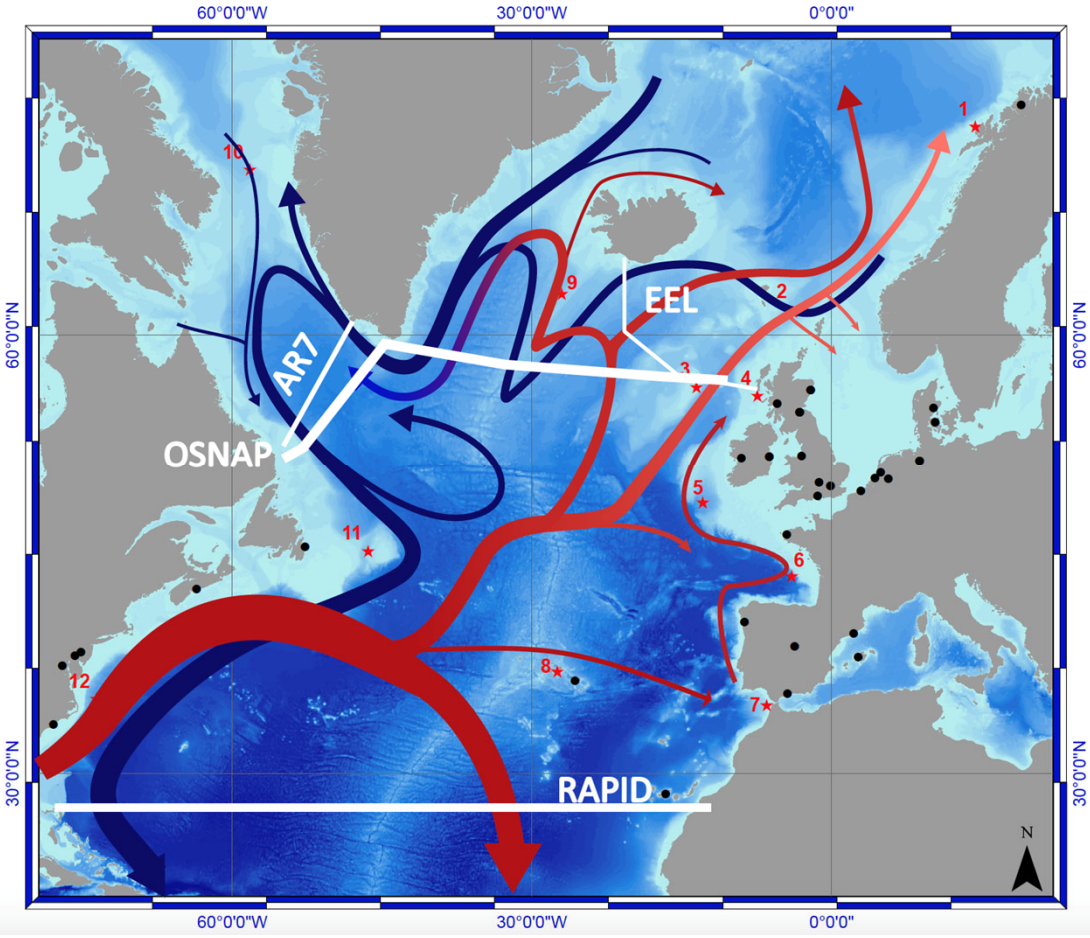


# 2-part Questionnaire to ATLAS Industry Associate Partners

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**4/5** – GIS databases of ATLAS Case Study layers for adaptive MSP fairly relevant: need to verify map resolution and compatibility with in-house systems/GIS. More work needed to showcase potential and cost benefits of EMODnet.

**Adaptive Marine Spatial Planning**

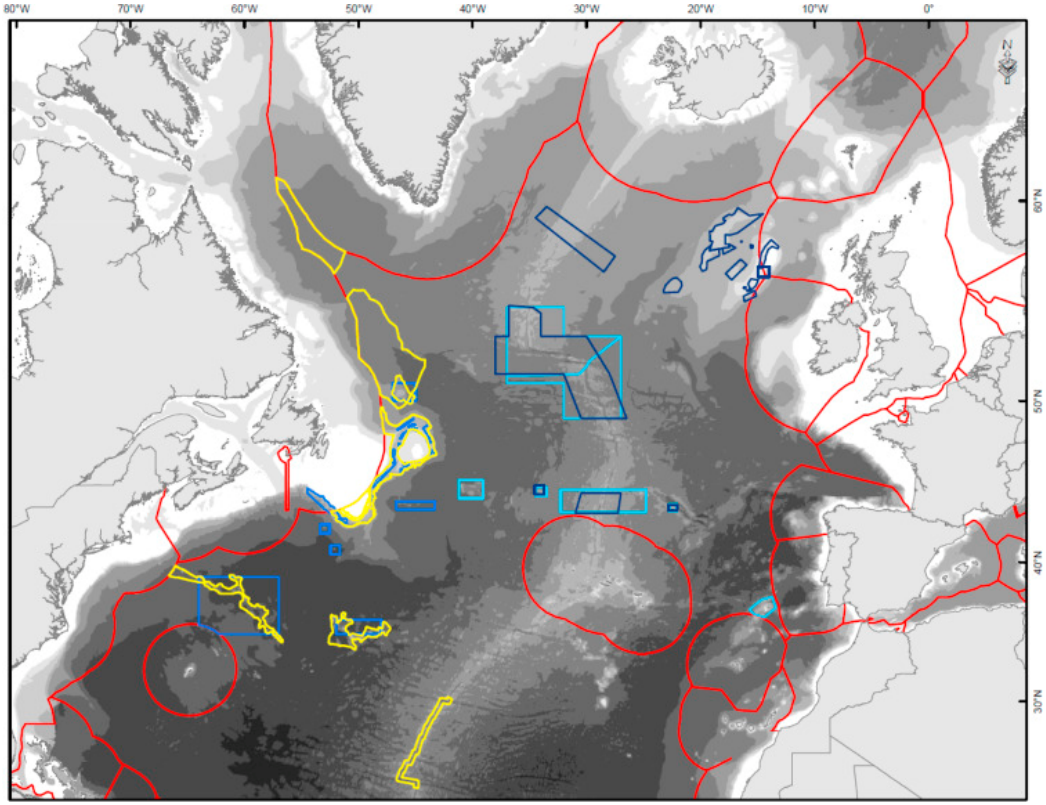


# 2-part Questionnaire to ATLAS Industry Associate Partners

**Policy**

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**2.5/5** – more relevant for governments/authorities, but opportunities for co-location could be investigated

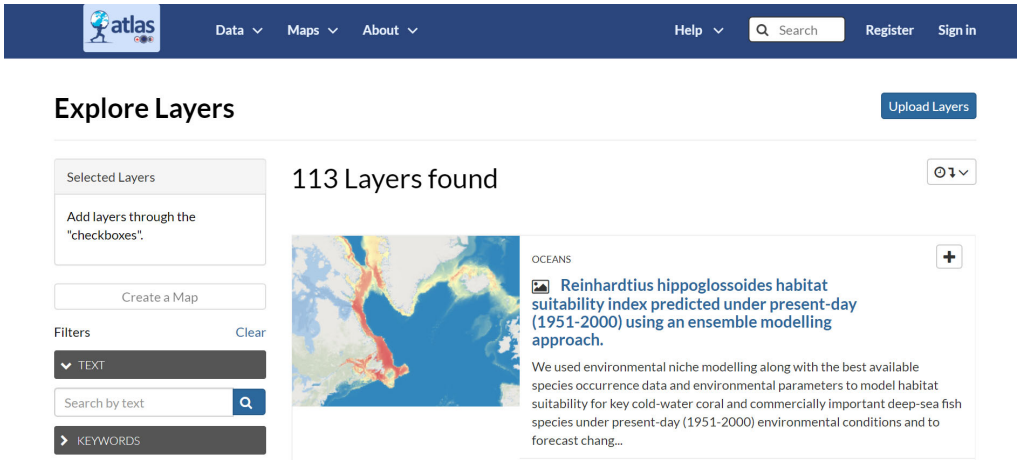


# 2-part Questionnaire to ATLAS Industry Associate Partners

## Data and Open Science

**Section 2:**
Relevance of ATLAS innovations for the mitigation hierarchy

**3/5** – useful, but need to ensure inter-operability



# During the final push for ATLAS (+3 month extension?…)

In our outputs, we need clearer sign-posts for industry to know what could be useful, and why

# Thank You

**An idea for the writing retreat?**

How could ecosystem services and valuations be better integrated into EIA/ESIAs for the offshore sector?

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