



Role of Maritime Spatial Planning to achieve environmental objectives and targets



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*Environment and Nature Protection within Maritime Spatial Planning
in the Baltic Sea*
Riga, Latvia, 1st November, 2013

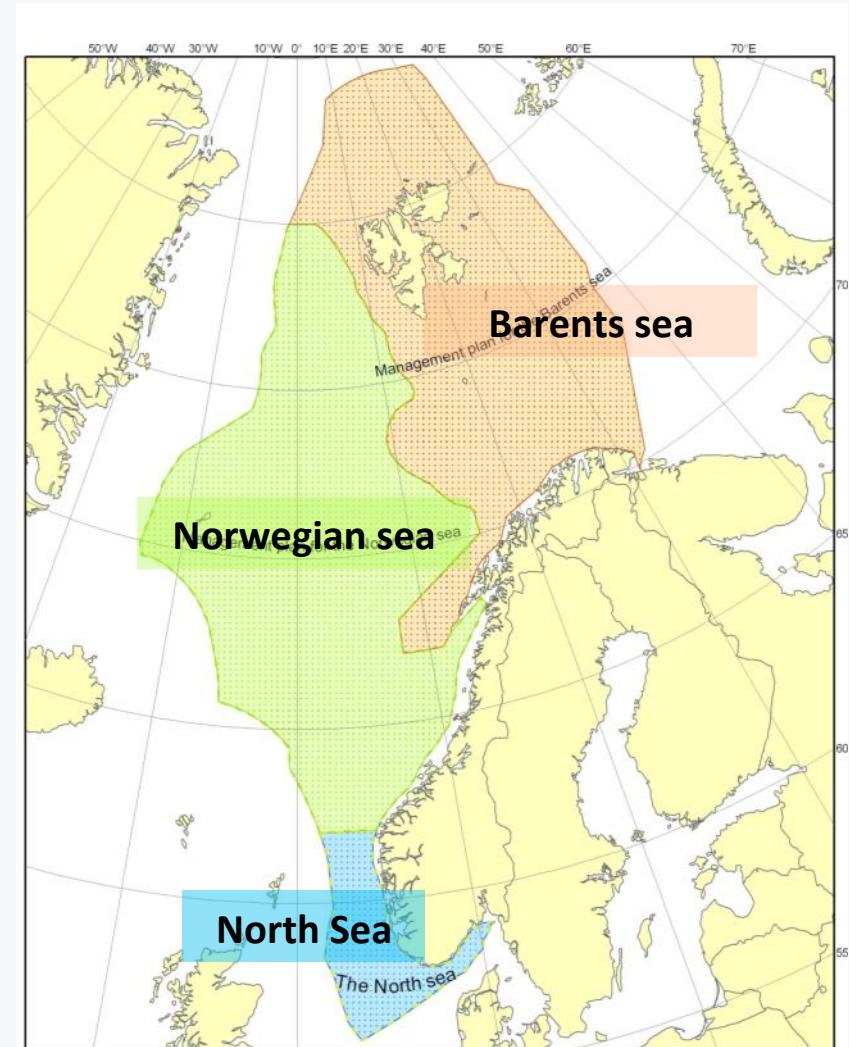


Part-financed by the European Union
(European Regional Development Fund)



MSP
one of the measures to
achieve or maintain GES in
marine waters.

*The Norwegian Management
plan regions*



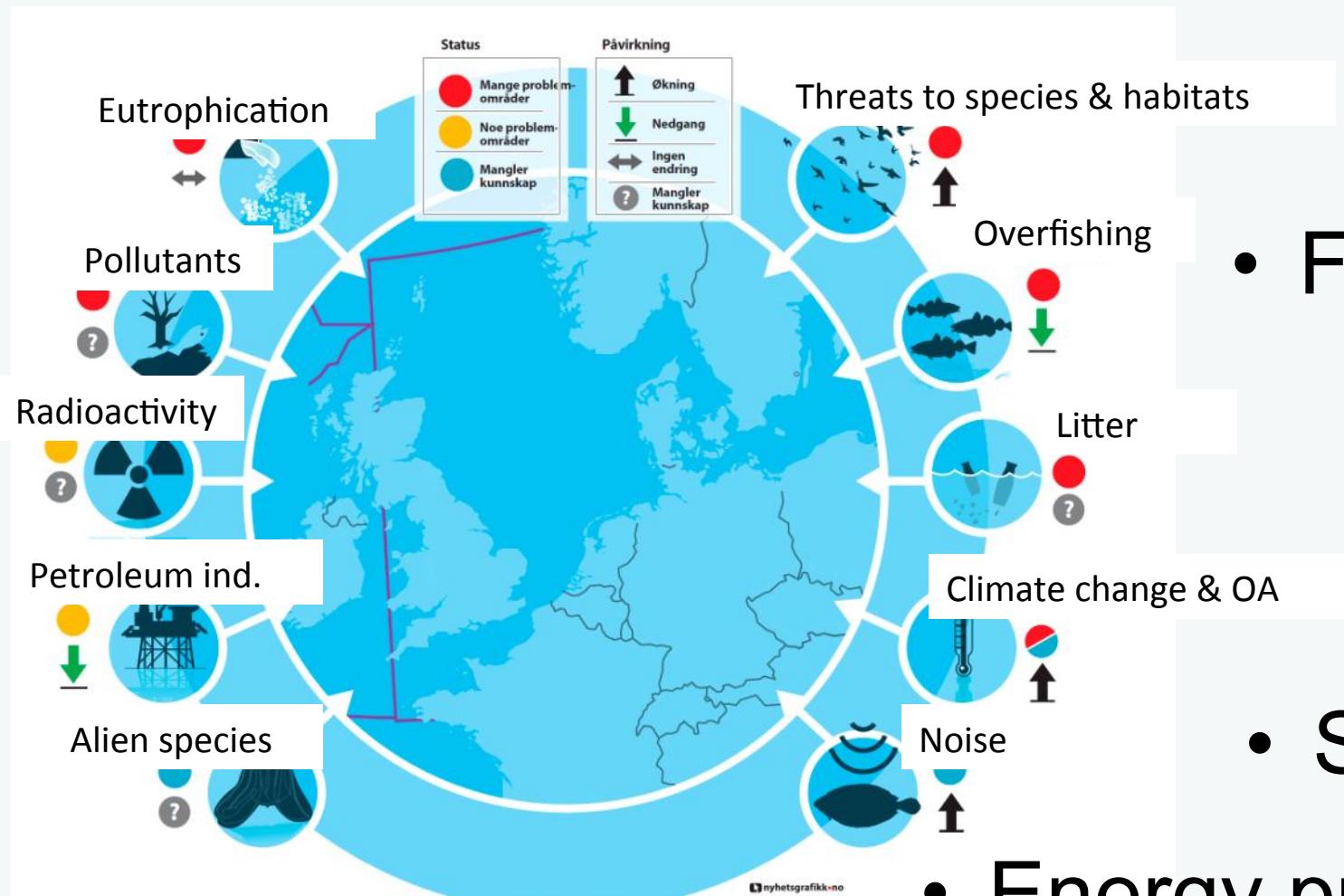
International collaboration



Transnational stakeholder collaboration;
tool for safeguarding and protecting the
marine and nature environment

- Norwegian-Russian collaboration in the Barents Sea
- Norwegian-Eu-Iceland-Faroe Island in the Norwegian Sea
- Norwegian-Eu collaboration in the North Sea and Skagerrak

Pressures

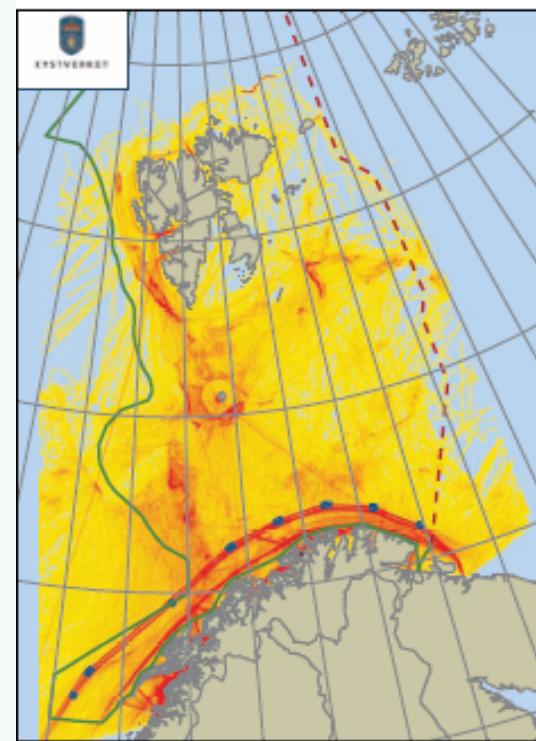


- Fisheries
- Shipping
- Energy production

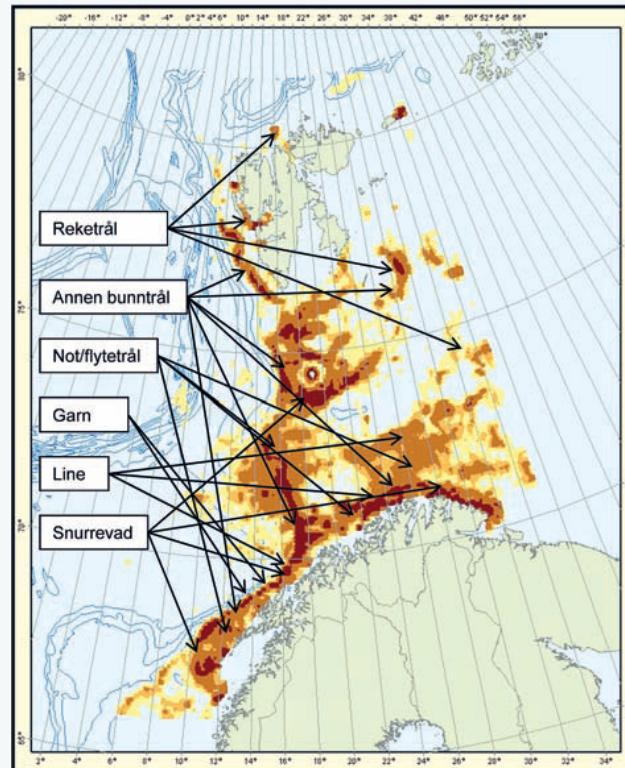


Anthropogenic activities in the Barents and Norwegian Seas

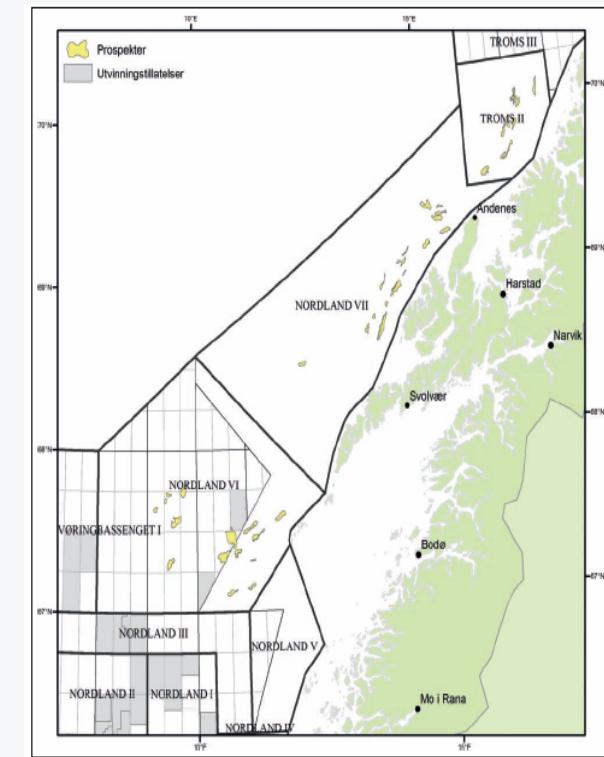
Ship traffic
2nd half of 2010



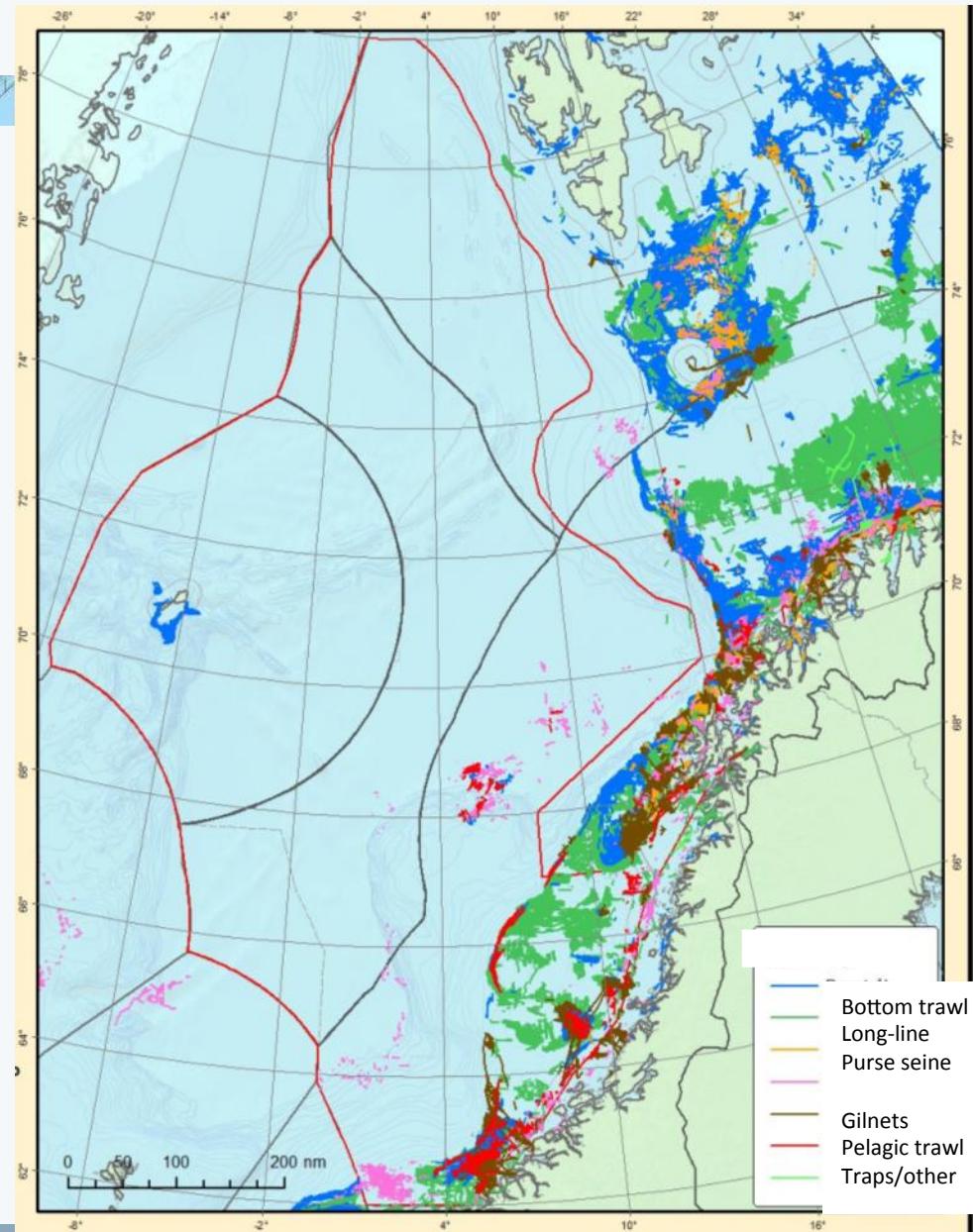
Fisheries activity 2009
(vessels > 21 m)



Petroleum extraction
mapped 2007-2009



Fishing gear used in
the Norwegian Sea
and the Barents Sea
by
vessel > 15 m



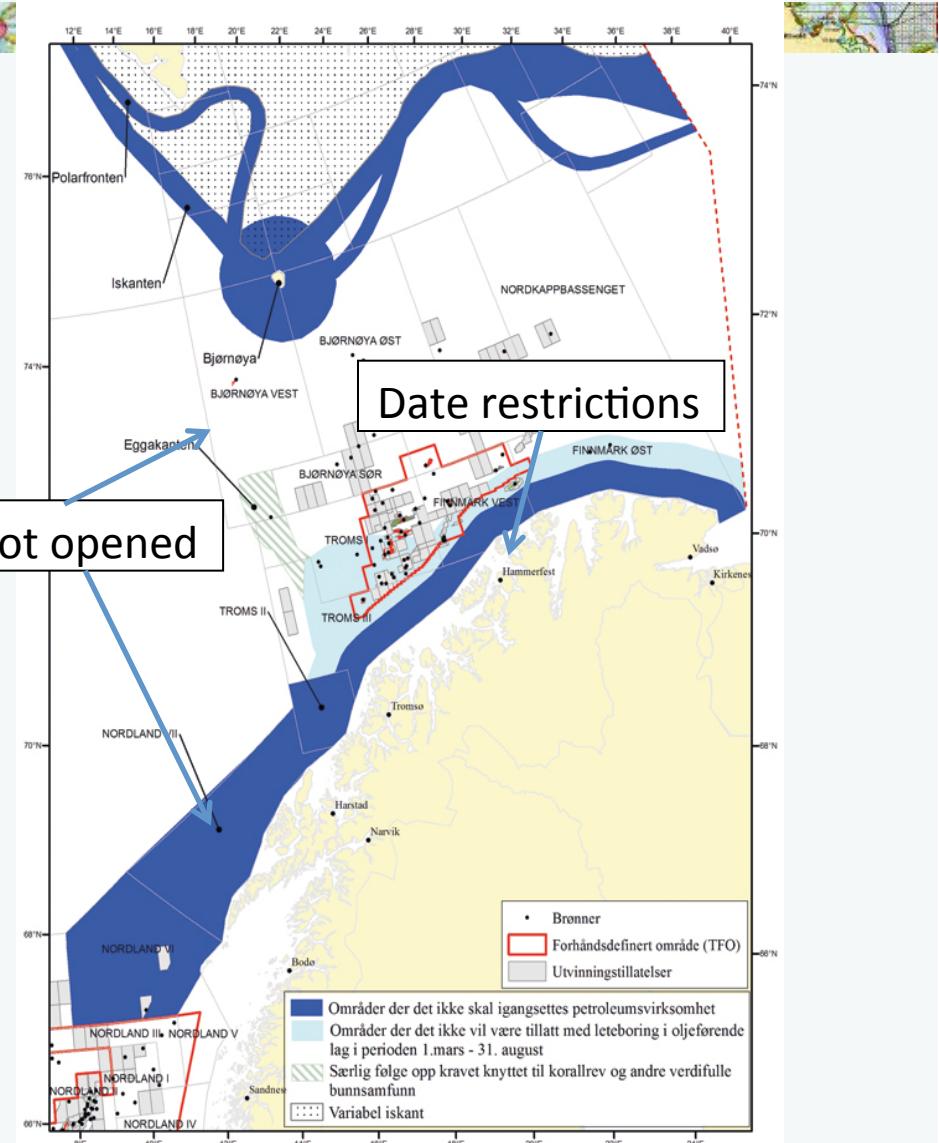
Fishing gear

(Ministry of Fisheries
and Coastal Affairs)

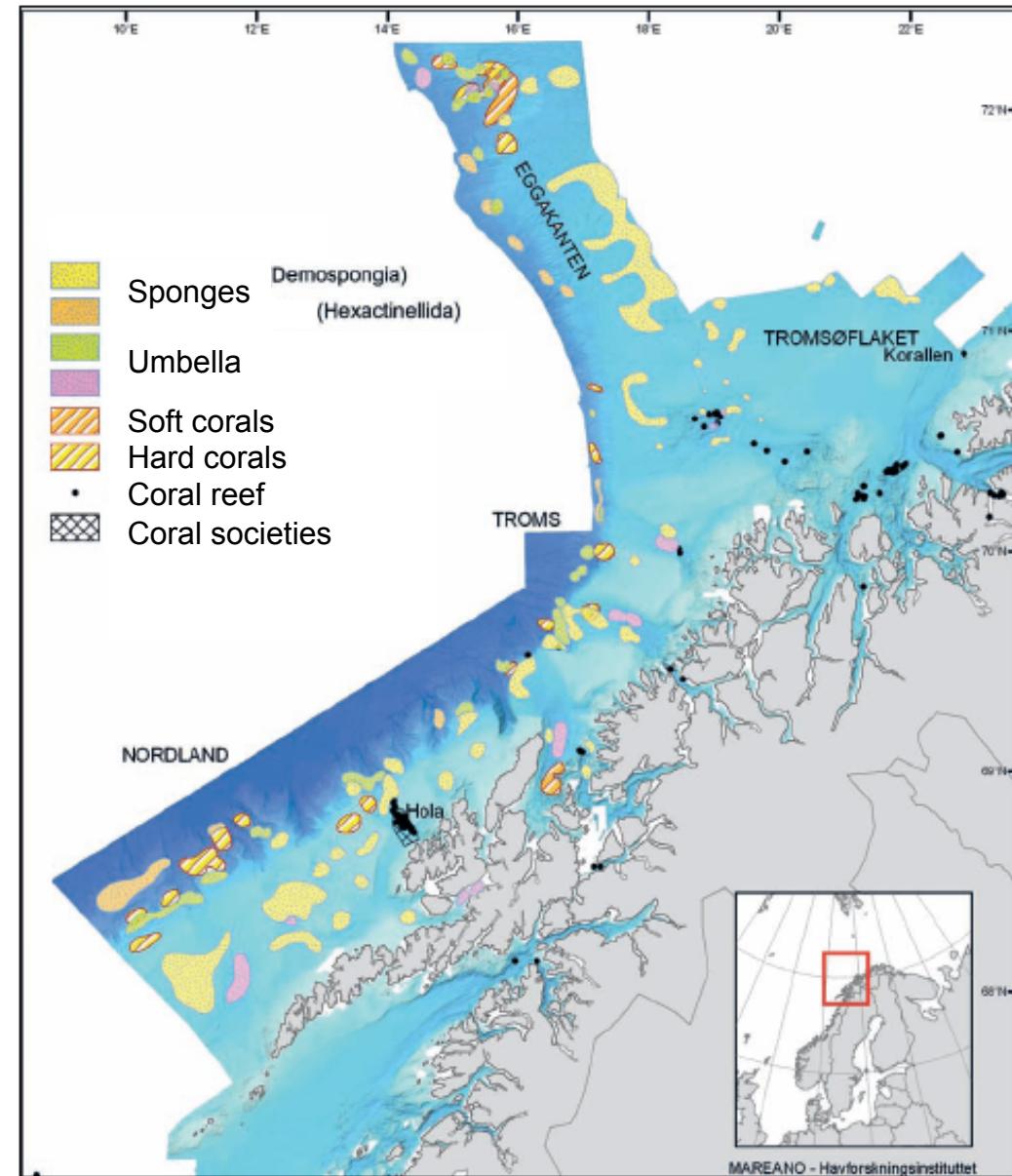
Petroleum fields



Revised petroleum framework,
The Norwegian Sea and the
Barents Sea 2011



Lofoten-Vesterålen-
Troms,
mapped by MAREANO

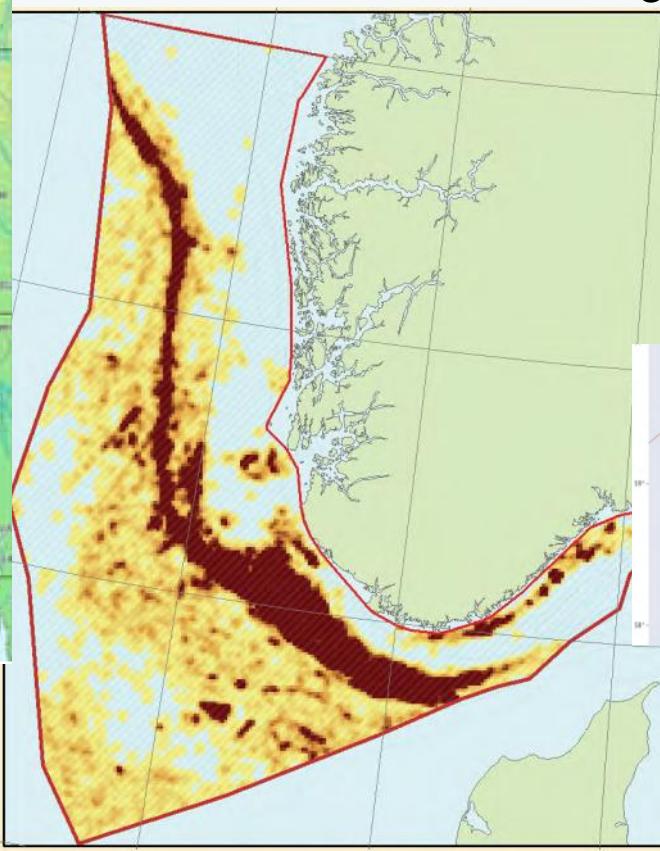


The North Sea

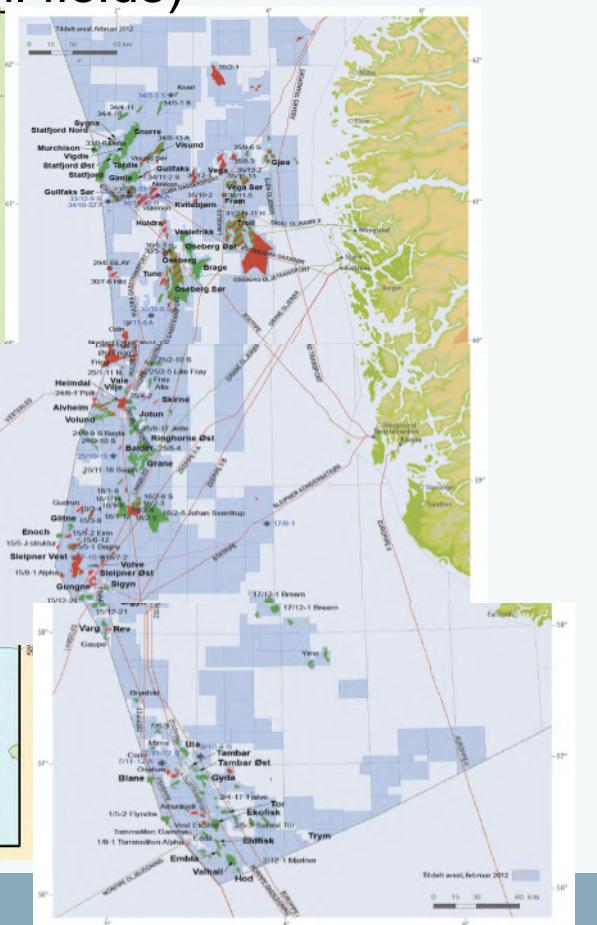


Ship traffic 2011

Fisheries activity 2011
(vessels > 21 m)

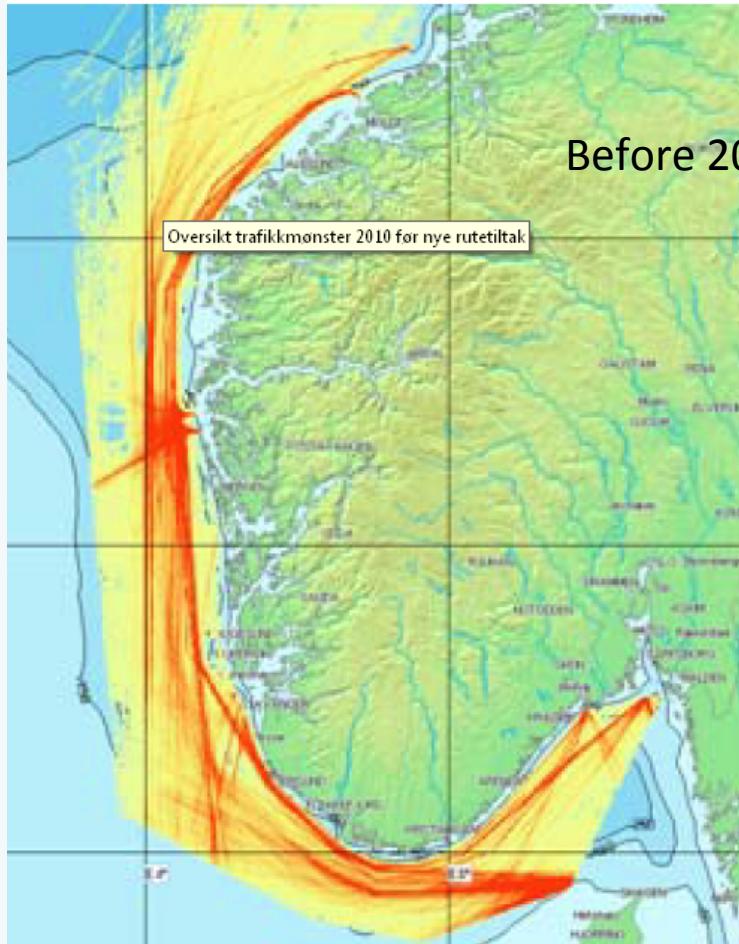


Petroleum extraction
mapped 2011 (gas and
oil fields)





North Sea Shipping lanes



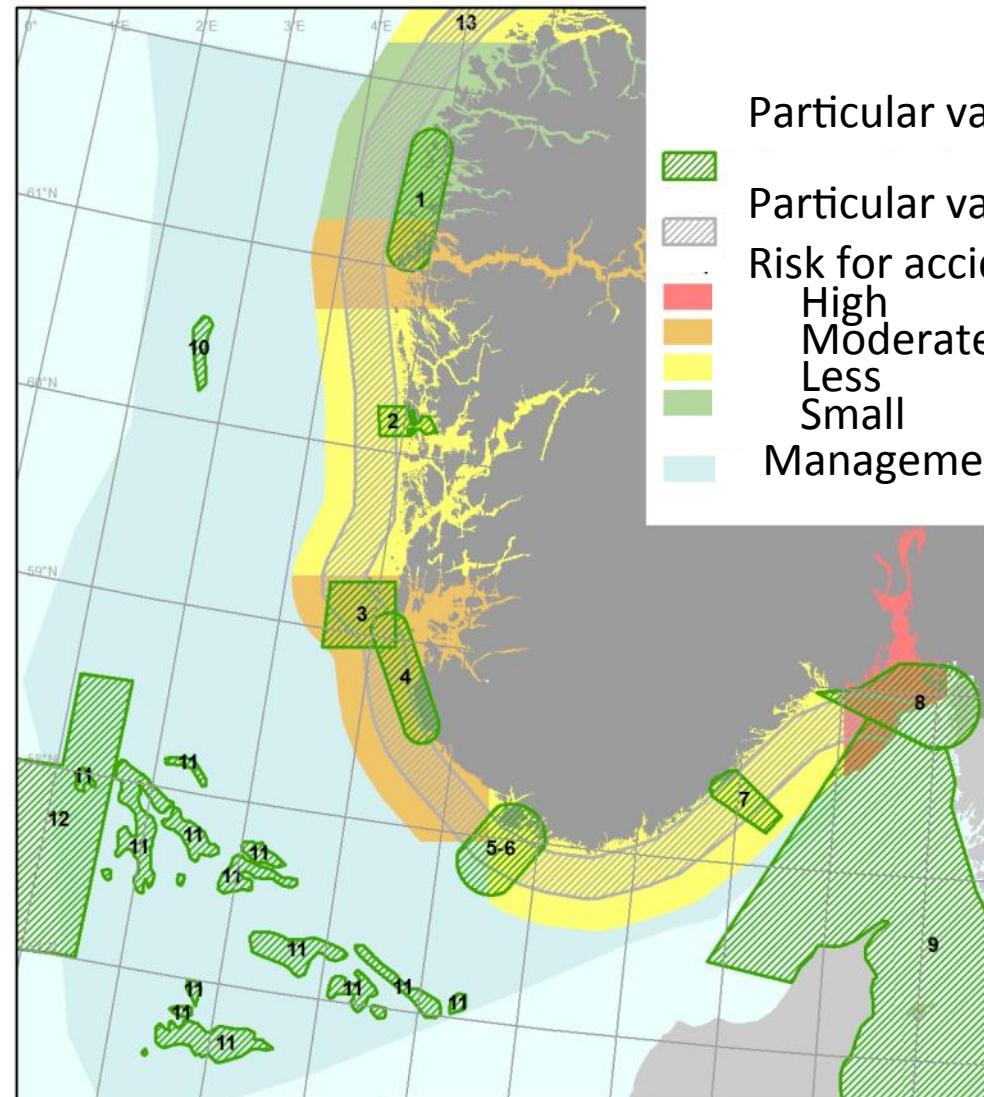
Before 2011



After 2011

The North Sea and Skagerrak

Particularly valuable areas

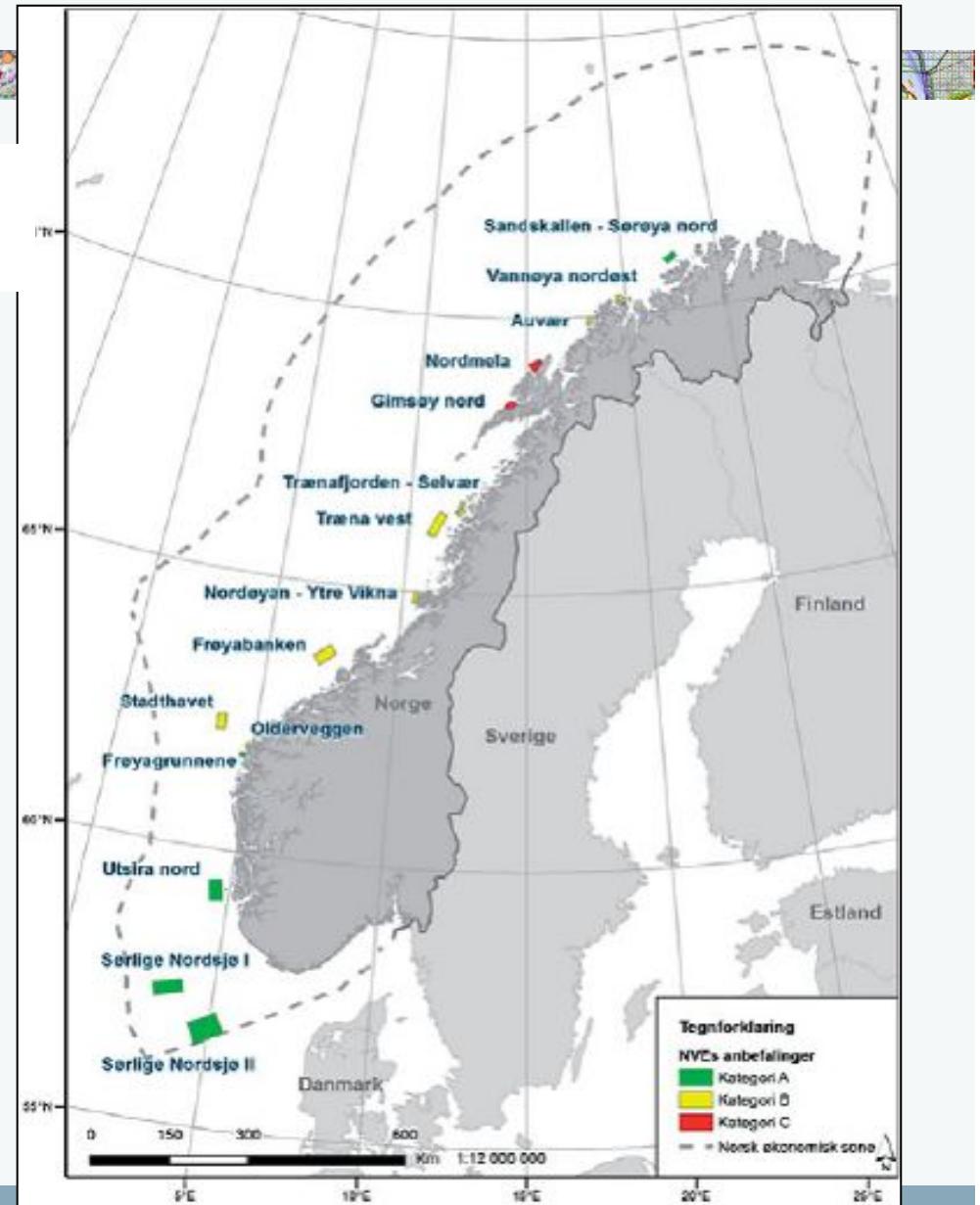


- Particular valuable areas, open sea
- Particular valuable areas, coast
- Risk for accidental oil spills
 - High
 - Moderate
 - Less
- Small
- Management plan area

Renewable energy

Potential offshore wind, Norway

- *Recommended areas*
 - *Green: most attractive locations*



Coastal conflicts



(Ministry of Fisheries and Coastal Affairs)



- ***High number of aquaculture permits***
- ***Problems/pressures***
 - ***Dispersal of salmon lice***
 - ***Escapees/genetic impact on wild salmon***
- ***Competition for space***
- ***Area management***
- ***A need for multi-use***

Is lack of MSP part of the problem?



**Do these measures help us achieve the
environmental targets we aim for?**

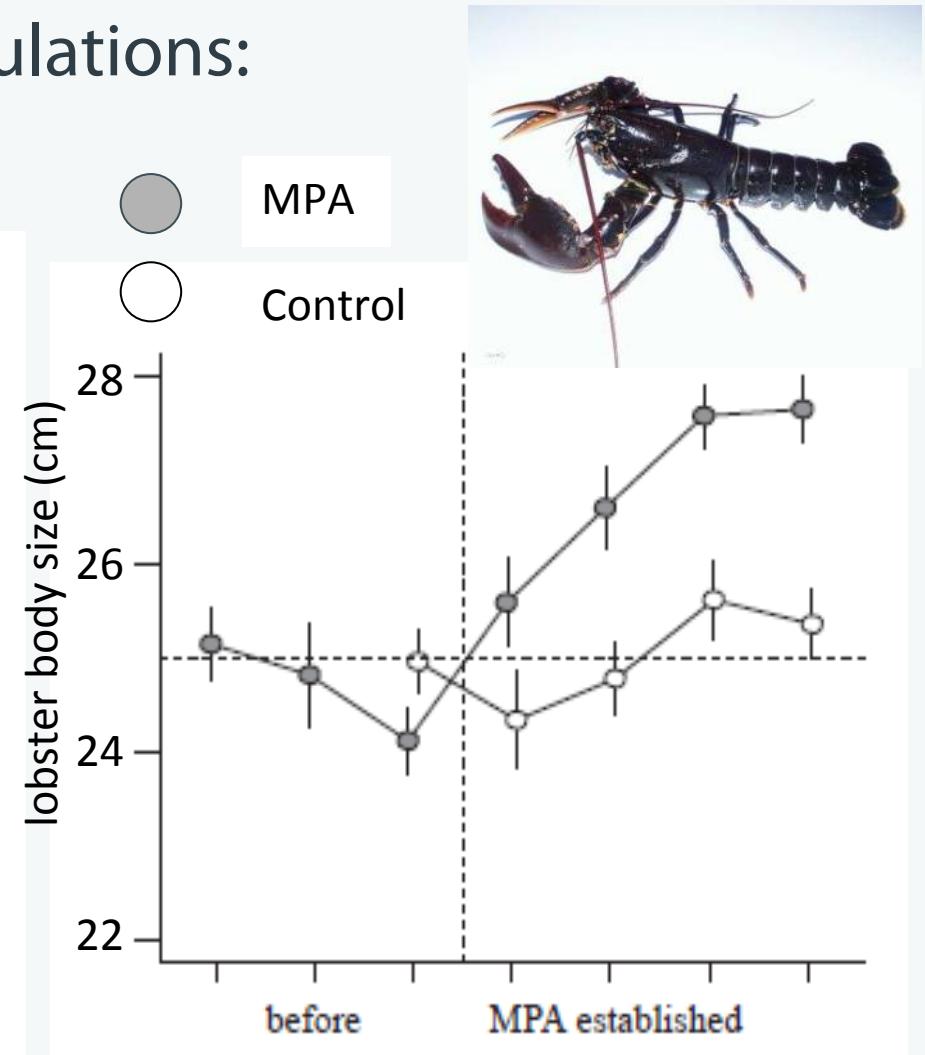
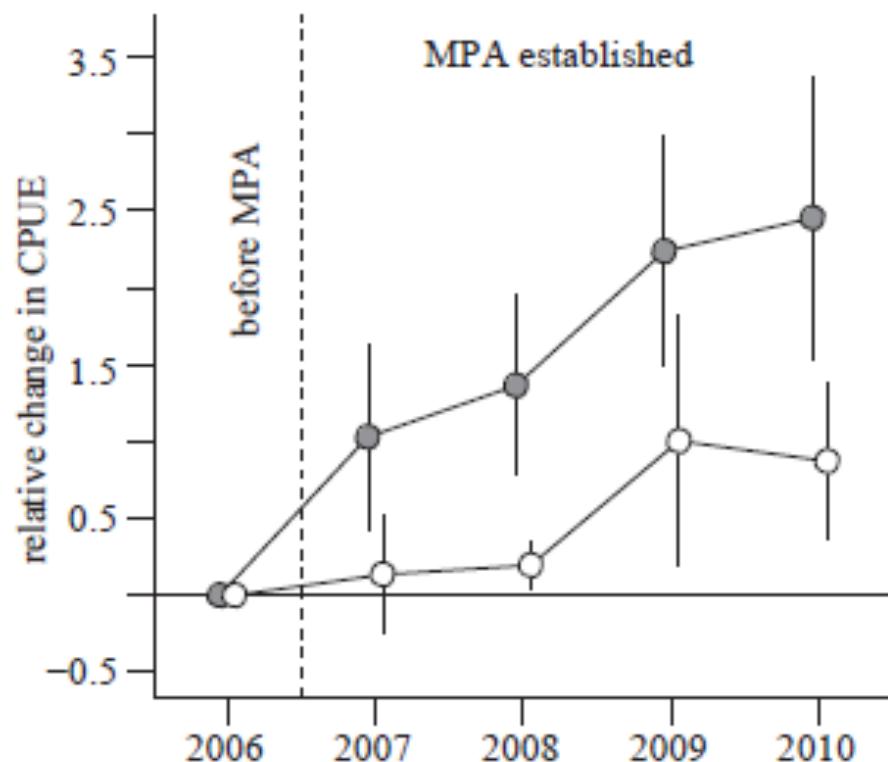
To early to tell on ecosystem level

Clear impact on spacial planning procedures

Single species impact observed



Coastal areal protection regulations: Lobster MPA (Skagerrak)



Moland E, Olsen EM, Knutsen H, Garrigou P, Espeland SH, Kleiven AR, Andre' C, Knutsen JA. 2013 Lobster and cod benefit from small-scale northern marine protected areas: inference from an empirical before–after control-impact study. Proc R Soc B 280: 20122679.



Thank you



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