Navigating to 2050

A safe and sustainable maritime future

#NavigatingTo2050



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Shipping and the use of maritime space in times of offshore wind energy expansion – lessons for policy makers and industry











The Federal Maritime and Hydrographic Agency (BSH)



Provides:

- Services to shipping
- Nautical and hydrographic information services
- Marine data and services

Ensures:

- Environmental protection in maritime transport
- Maritime navigational safety and security

Governance:

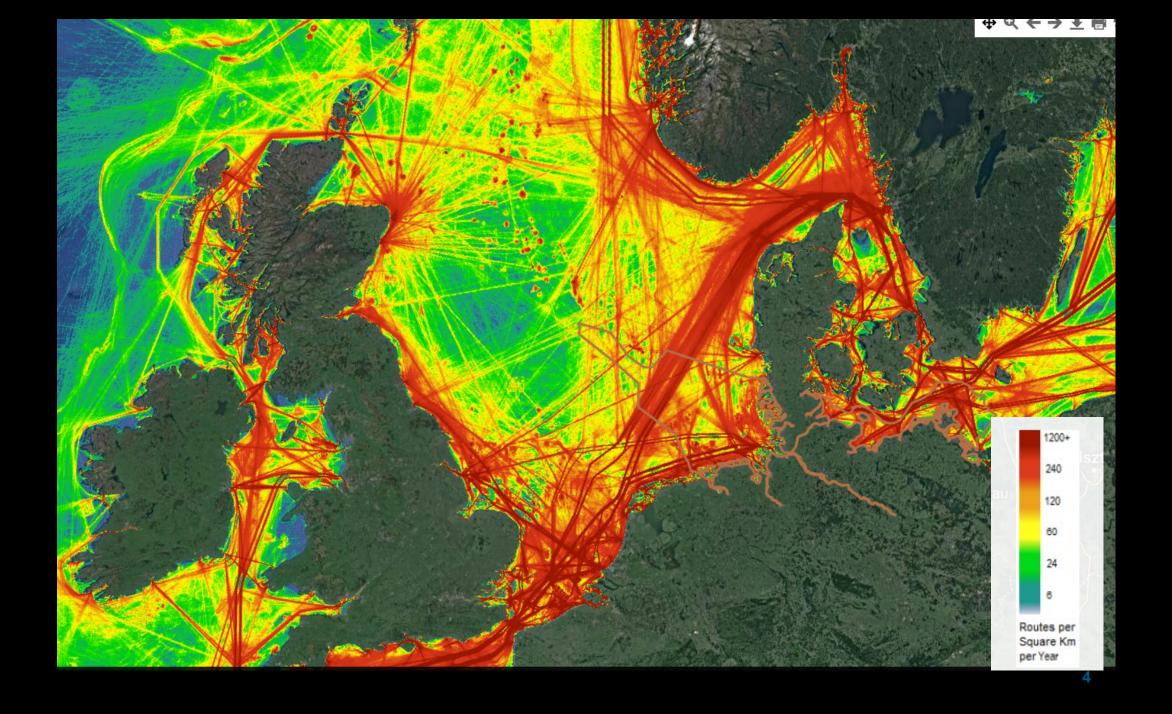
- Maritime spatial planning
- Approval of offshore windfarms in the EEZ



- > ~1000 staff
- > 5 vessels
- Laboratories

Rostock



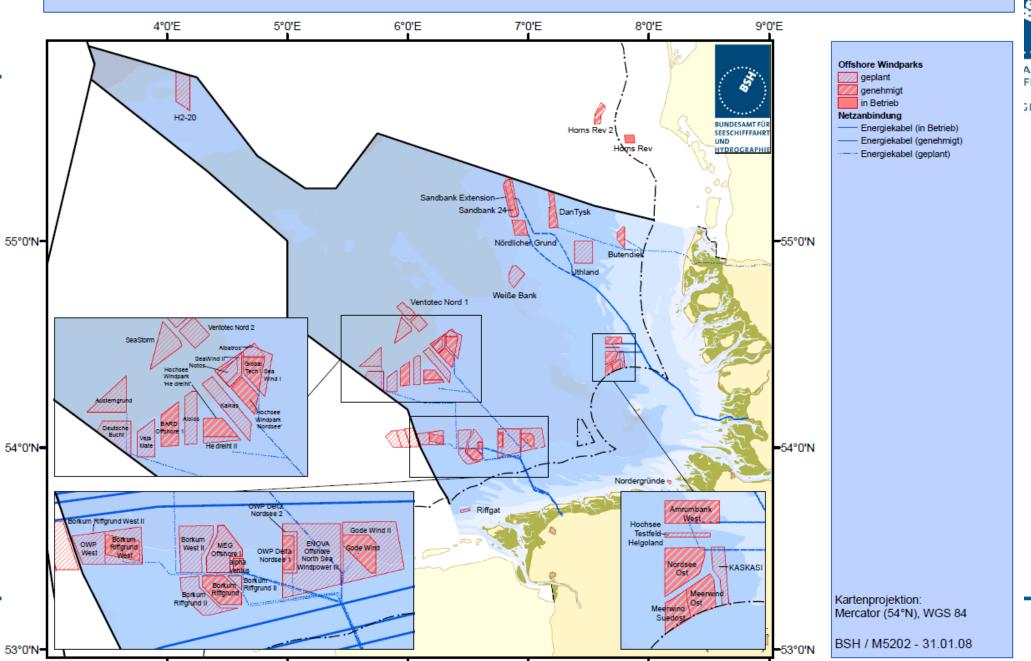


Development of offshore wind energy - Targets



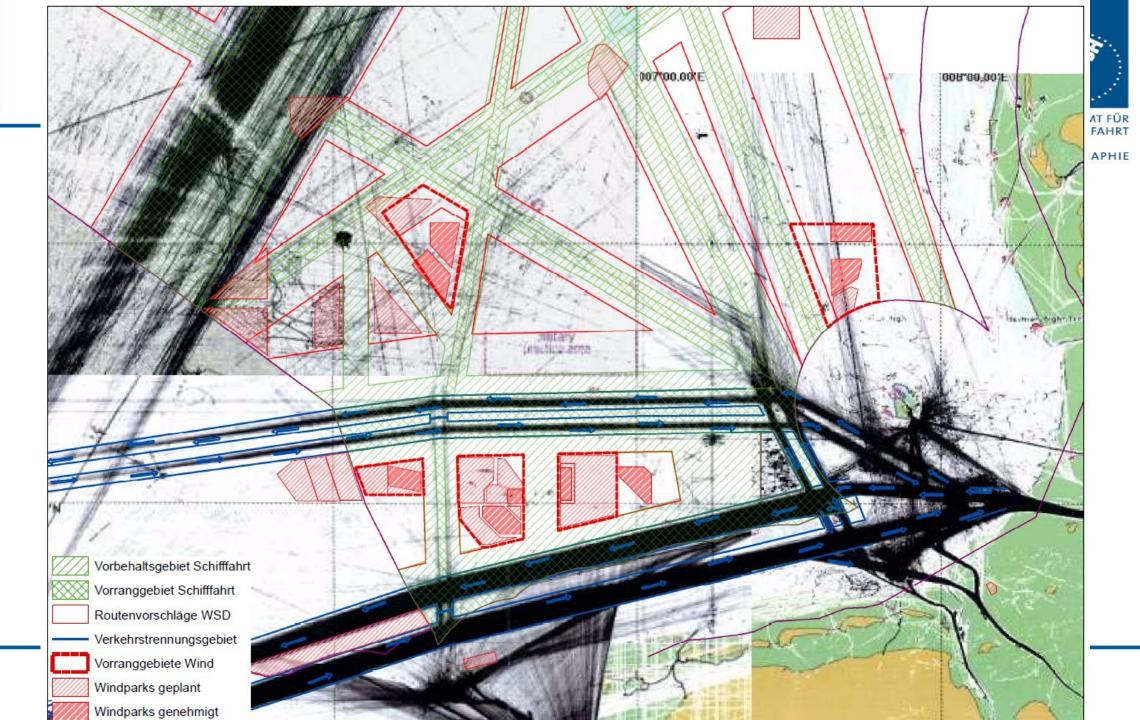
- 2002 2 3 GW by 2010, 20 25 GW by 2030 (Strategy)
- 2009 20 25 GW by 2030 (EEG)
- 2012 25 GW by 2030 (EEG)
- 2014 6.6 GW by 2020, 15 GW by 2030 (EEG)
- 2017 15 GW by 2030 (WindSeeG)
- 2020 20 GW by 2020, 40 GW by 2040 (WindSeeG)
- 2023 30 GW by 2030, 40 GW by 2035, 70 GW by 2045 (WindSeeG)

Nordsee: Offshore Windparks

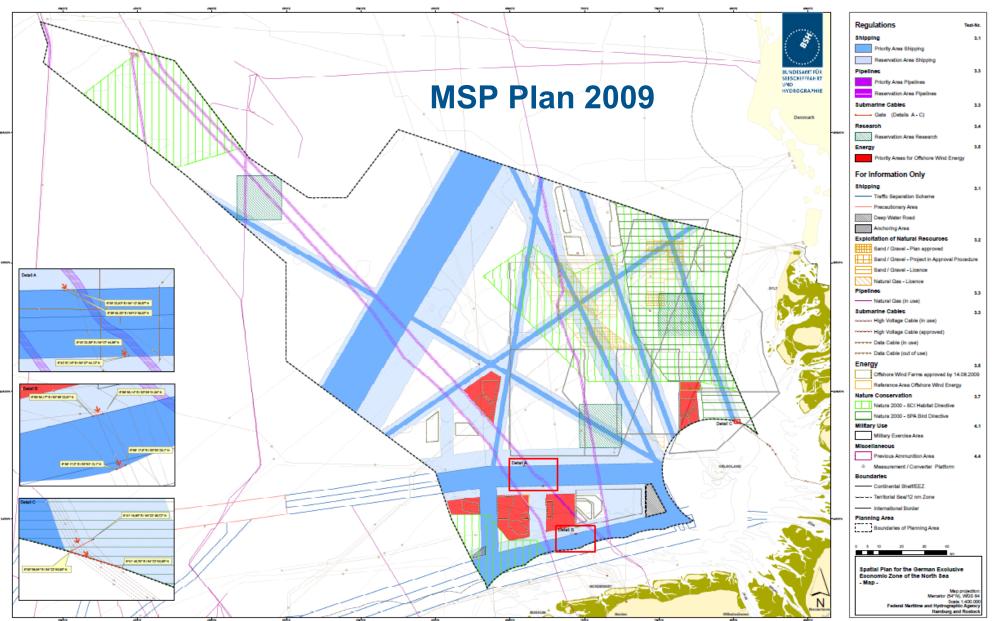


AMT FÜR FFFAHRT

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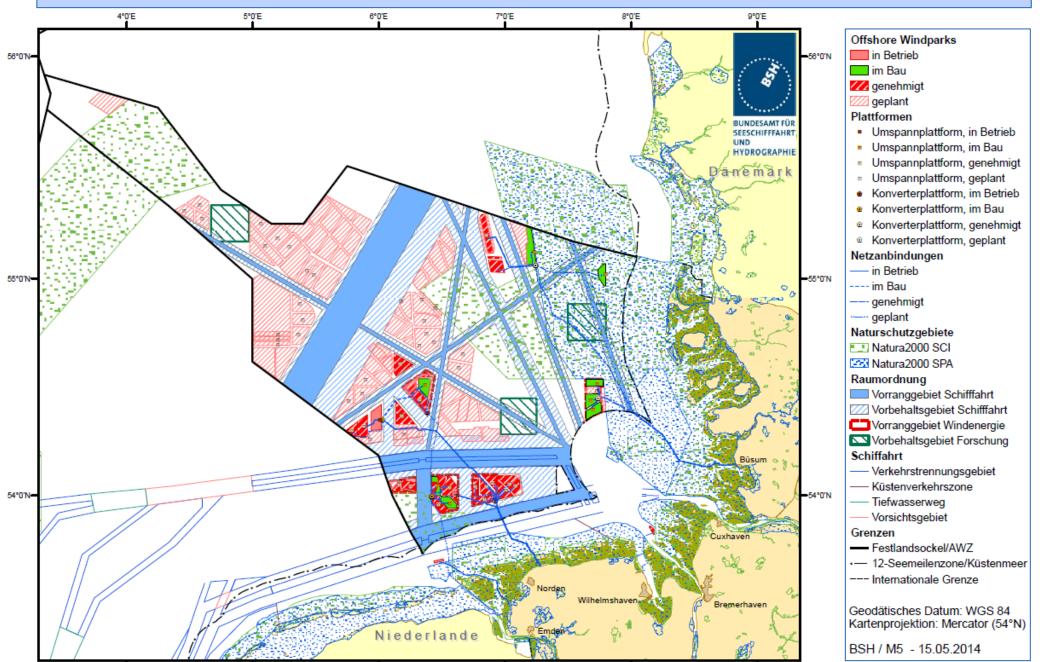


Spatial Plan for the German Exclusive Economic Zone of the North Sea - Map -



MT FÜR FFAHRT RAPHIE

Nordsee: Offshore Windparks



Interreg NorthSEE Project

- First project of its kind with MSP authorities in the North Sea Region
- Focus on shipping, energy and environment
- In Shipping WP: traffic flows identified, which were outside of the designations for shipping in the MSPs









GRAPHIE

A North Sea Perspective on Shipping, Energy and **Environmental Aspects in Maritime Spatial Planning**

Objectives

Greater coherence in Maritime Spatial Planning (processes) and in Maritime Spatial Plans (capturing synergies and preventing incompatibilities),

Creating better conditions for sustainable development of the area in the fields of shipping, energy and environmental protection.



Project partners MSP authorities

Federal Maritime and Hydrographic Agency Ministry of Infrastructure and the Environment

Ministry of Climate and Environment

Swedish Agency for Marine and Water Management

Other partners

Norwegian Environment Agency Institute of Marine Research

Aalborg University

University of Oldenburg World Maritime University

Breda University of Applied Sciences Province of North-Holland



ERDF contribution € 1.894.100



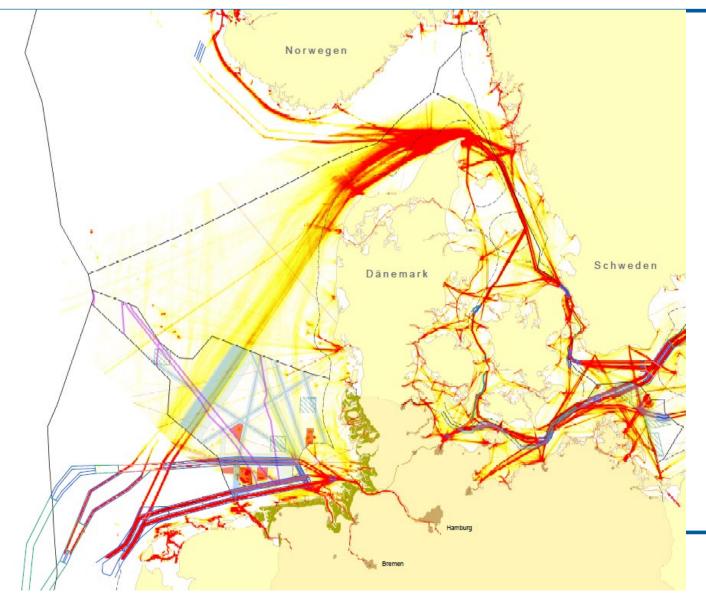






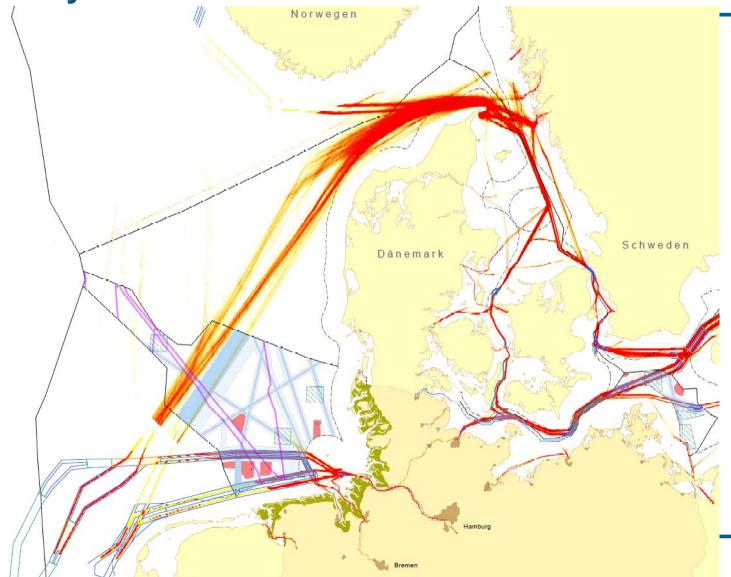


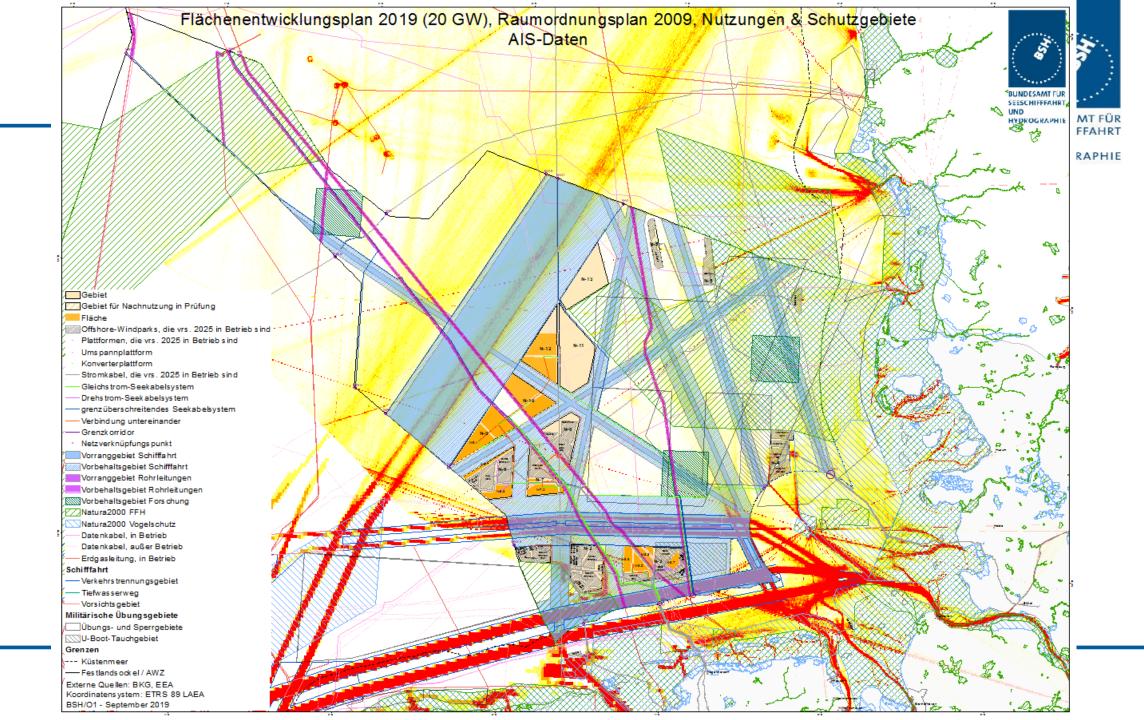


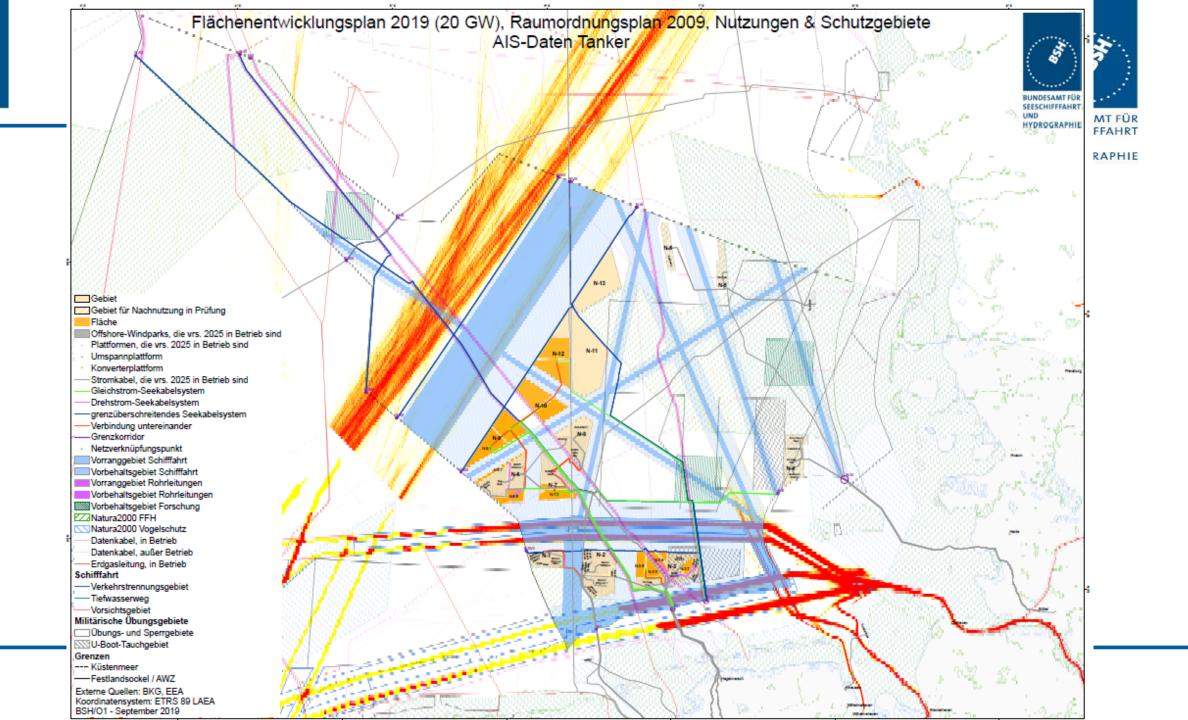


AIS Tanker analysis





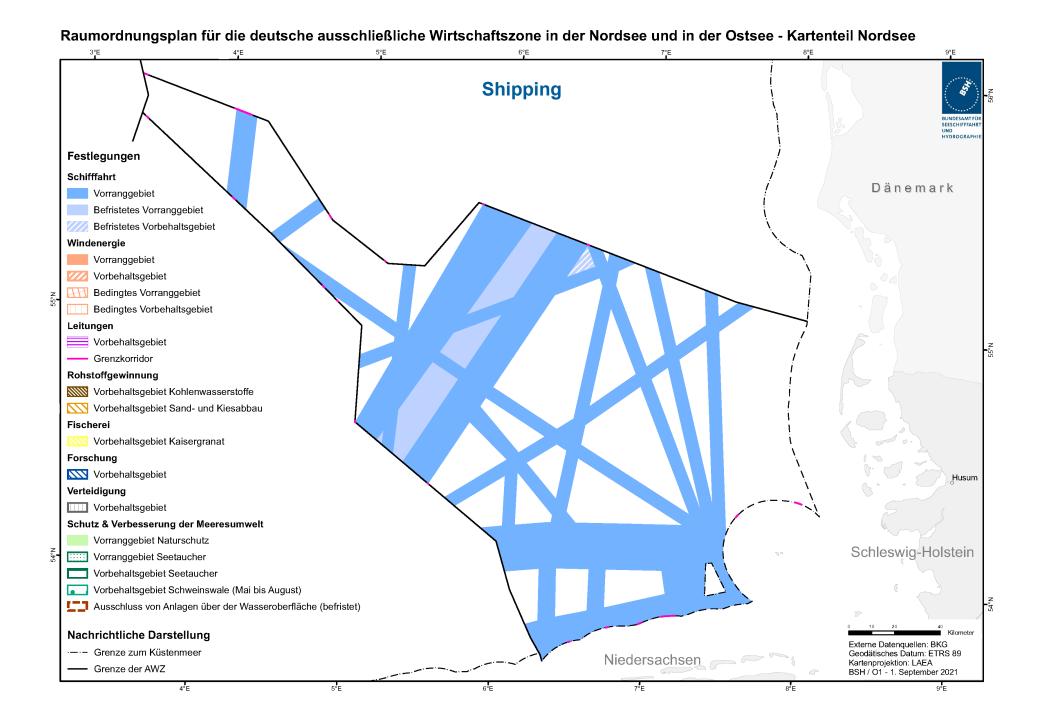


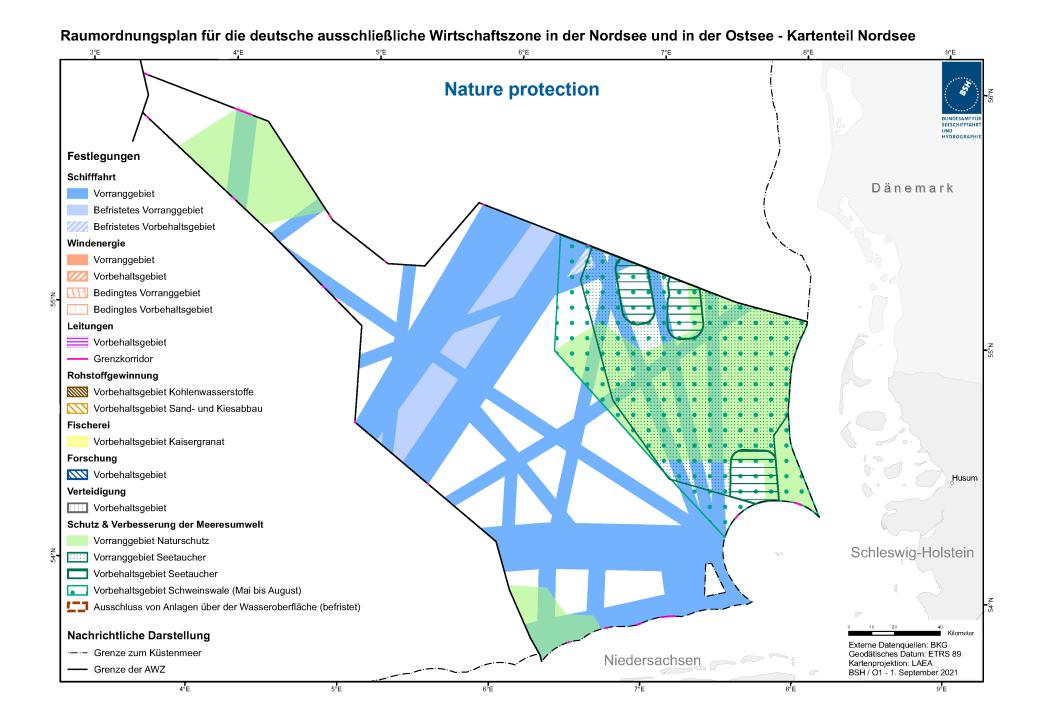


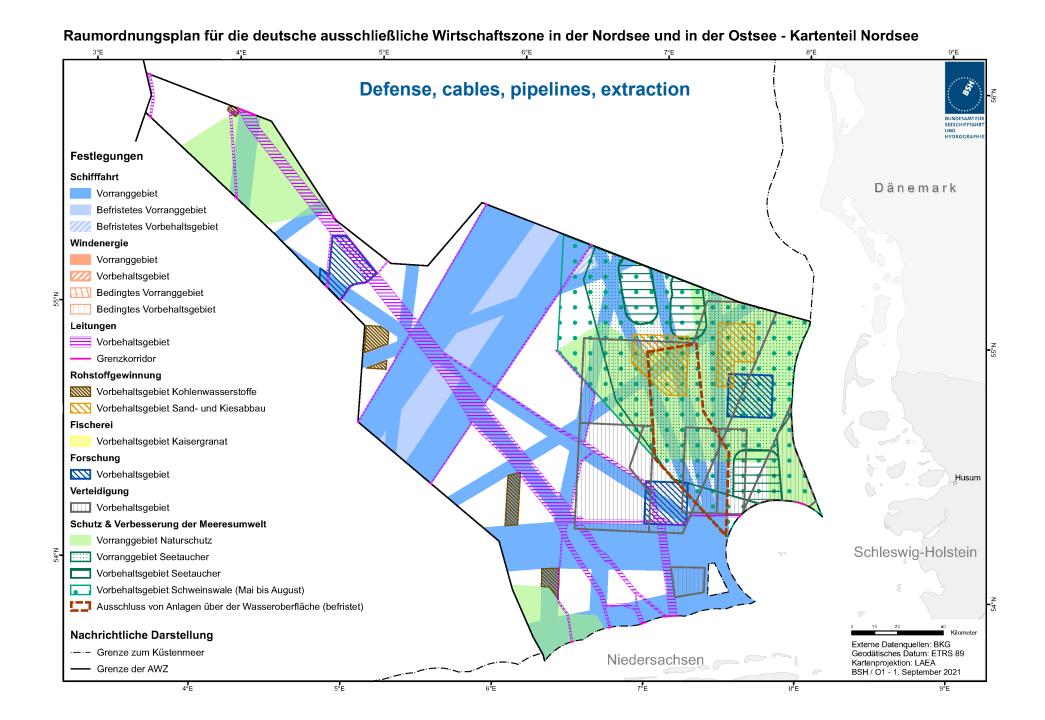


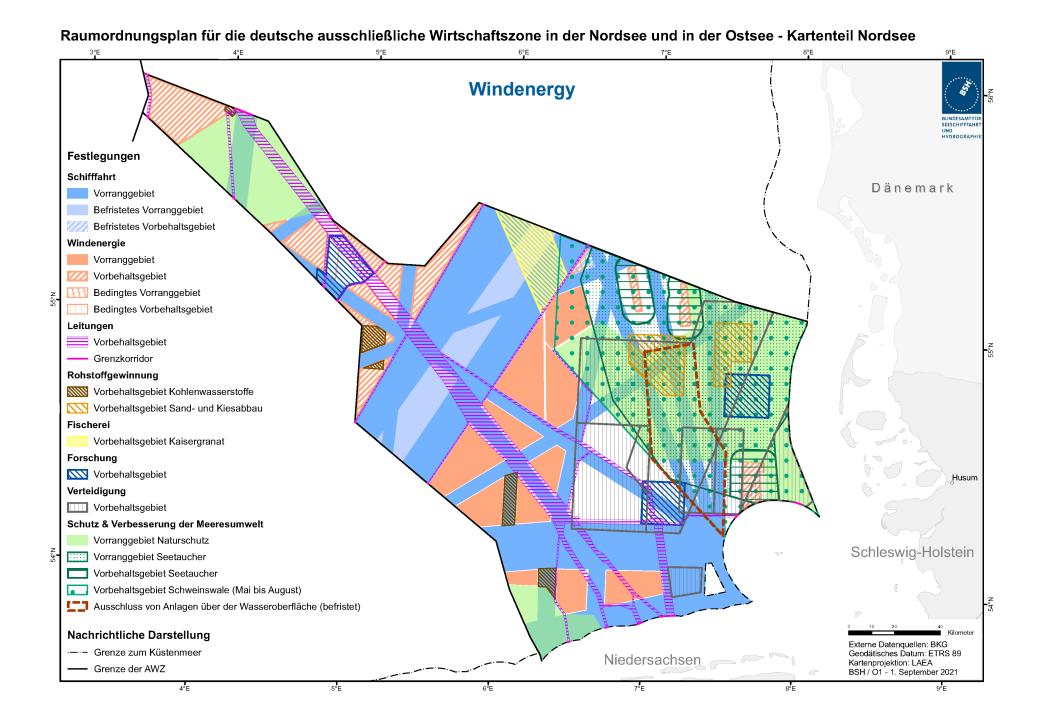


- Close collaboration and regular exchange with neighboring countries
- North Sea Shipping Group meetings with UK, Norway, Sweden, Denmark, the Netherlands, Belgium, France and Germany
- Discussions how to integrate this traffic into the MSP plans
- Support from external contractors (shipping studys)



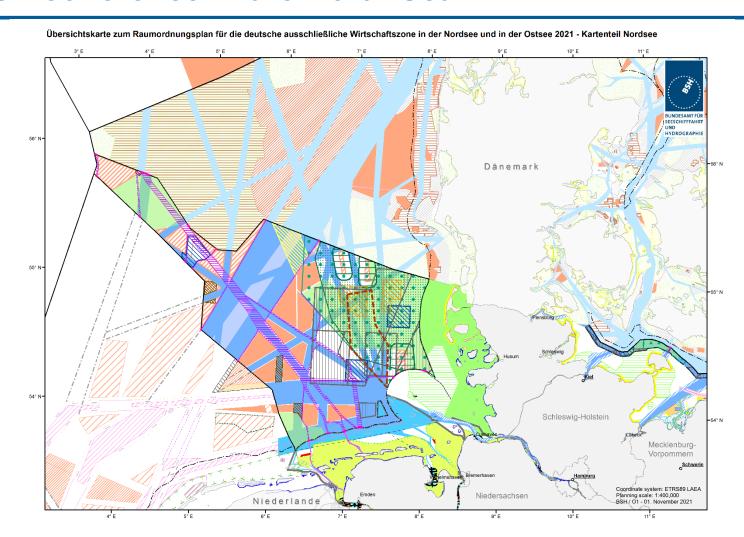


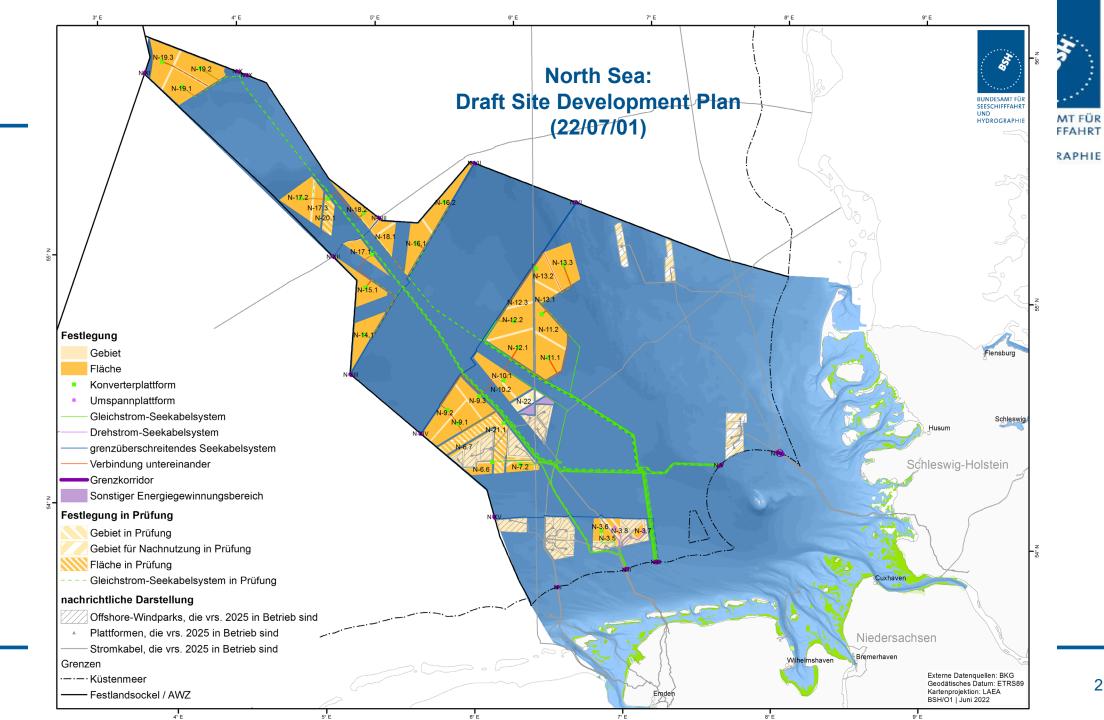




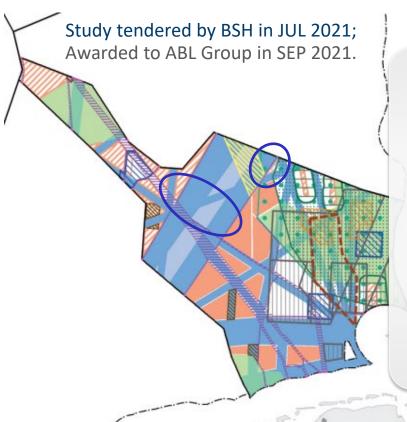
MSP coherence in the North Sea







Study Overview



Traffic analysis of designated areas in the North and Baltic Sea in consideration of their use for offshore wind from a navigation safety and efficiency perspective:

- WP 1 Traffic Analysis Southeast part
 North Sea and Southwest part Baltic Sea
- WP 2 Navigational Analysis's of shipping route 10 (SN10) in German North Sea
- WP 3 Navigational Analysis's of areas and extensions of EN13 in German North Sea
- WP 4 Navigational Analysis of area EO2 and extension in German Baltic Sea
 - WP 5 Ad-hoc support





Detailed analysis in shipping study





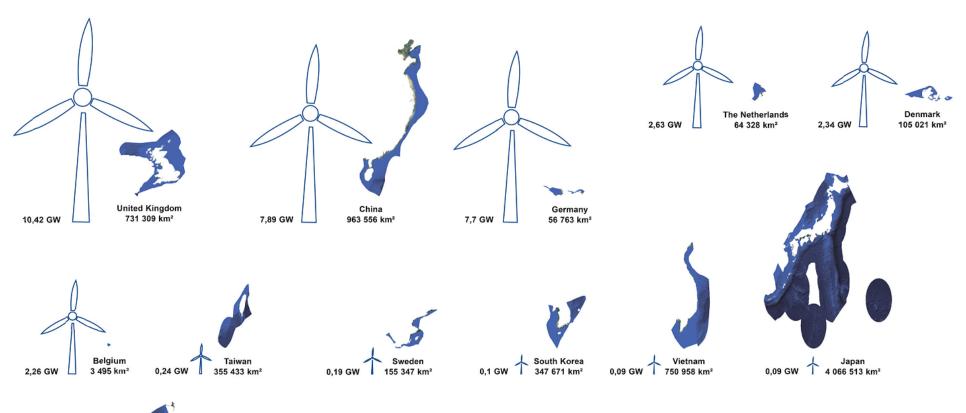


Possible additional areas for offshore wind within SN10

Offshore wind energy – Country comparison (2021)



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0,07 GW 1 81 553 km²



Quellen:
World Forum Offshore Wind e.V. (2021).
WFO Global Offshore Wind Report. https://wfo-global.org/reports/

The World's 230 Exclusive Economic Zones from largest to smallest. Flanders Marine Institute (VLIZ): Oostende.

1 poster pp. http://www.vliz.be/en/imis?module=ref&refid=347874

Thank you for your attention!





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