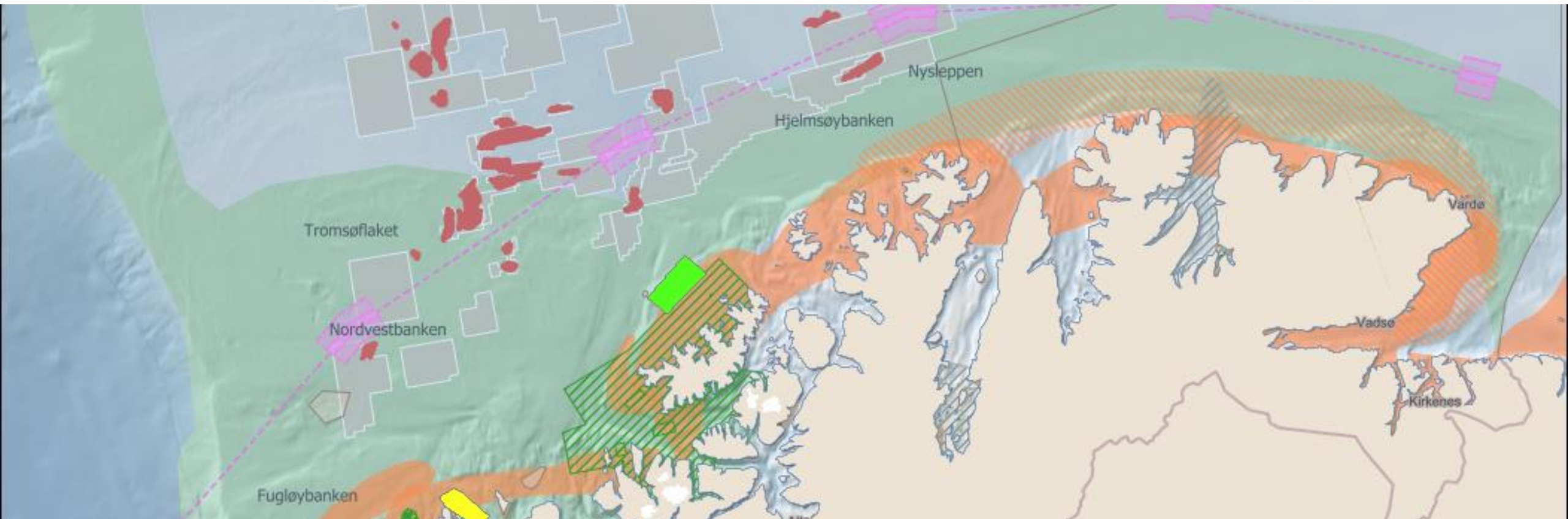




Kartverket

NordicSpatial

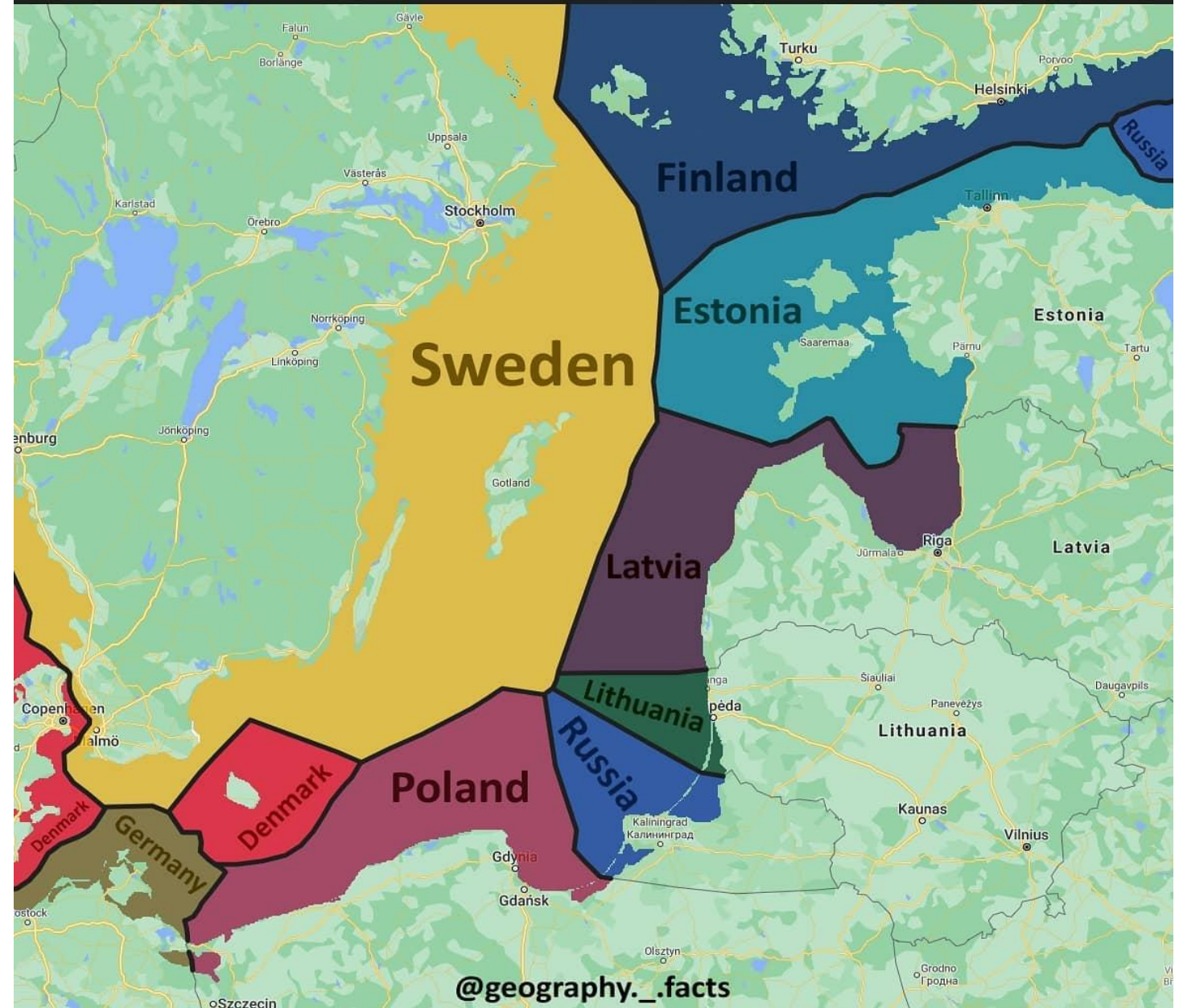
A unique cooperation on geospatial information for decision makers



**Cooperate on
a basin level**

**to solve
challenges
on a global
and national
levels**

Exclusive Economic Zones in the Baltic Sea



Why?

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Environmental Governance of the Baltic Sea
Michael Gilek, Mikael Karlsson, Sebastian Linke, Katarzyna Smolarz - Editors
MARE Publication Series 10
SpringerOpen

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Value of Risk in the Global Blue Economy
WWF, MARE

Water Resources Quality and Management in Baltic Sea Countries
Abdelazim M. Negm, Martina Zelenakova, Katarzyna Kubick-Wojcik, Yuhong Wang
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The Baltic Shadow Plan: For the ...
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BALTIC REGION
2020 | Vol. 12 | №1
ISSN 1571-4044
+ ISSN 1320-428X
POLITICAL REGIONAL STUDIES
SOCIAL GEOGRAPHY AND REGIONAL SOCIOLOGY
ECONOMIC GEOGRAPHY AND REGIONAL ECONOMICS

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The Handbook of Environmental Chemistry 27
Svetlana Golubeva, Andrey G. Kostianoy, Olga Yu Lavrova - Editors
Andrey G. Kostianoy, Olga Yu Lavrova - Editors

Project group:

- Norwegian Mapping Authority (Project owner)
 - BarentsWatch (Methodology)
 - Bouvet (Development)
 - Norconsult (Data analysis)
-
- National MSP coordinators from Sweden,
 - Denmark, Finland, Estonia, Latvia
 - Lithuania, Norway, Iceland, Faroe Islands

Reference groups

Created (when needed) through cooperation with the national MSP coordinators for each specific thematic challenge

Nordic Spatial

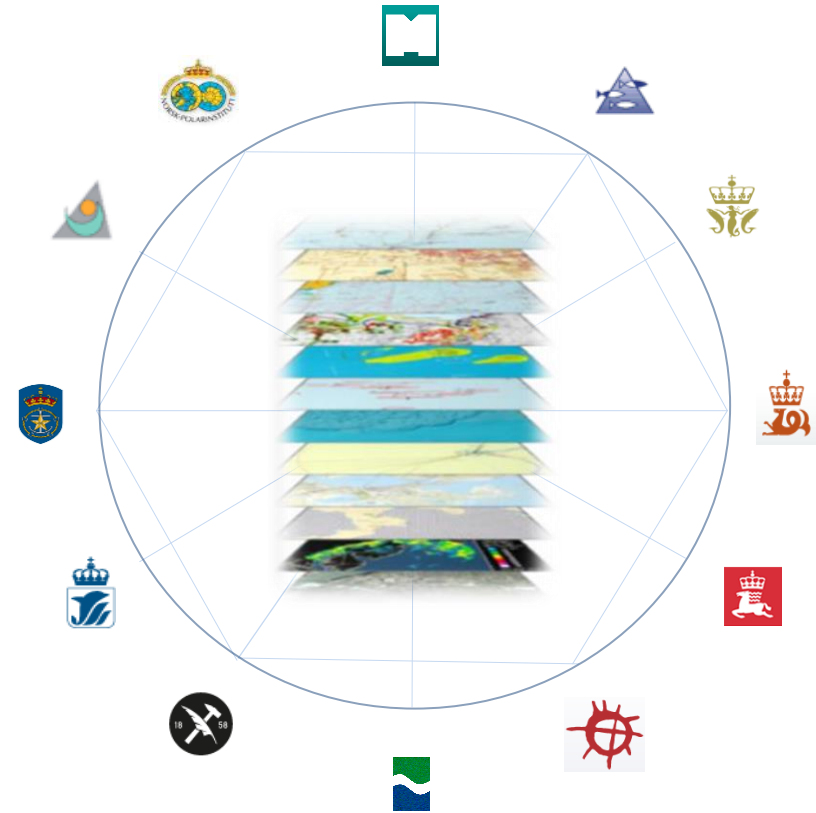
Support the marine spatial planning process with authoritative data

Main stakeholders

- National Environment Agency
- National Mapping Authority
- National Directorate of Fisheries
- National Institute of Marine Research
- National Coastal Administration
- National Maritime Authority
- National Petroleum Directorate
- National Petroleum Safety Authority
- National Radiation Protection Authority
- National Institute of Nutrition and Seafood Research

Existing infrastructures

- EMODNet
- Euro-GOOS
- Helcom
- INSPIRE
- OSPAR



Nordic Spatial

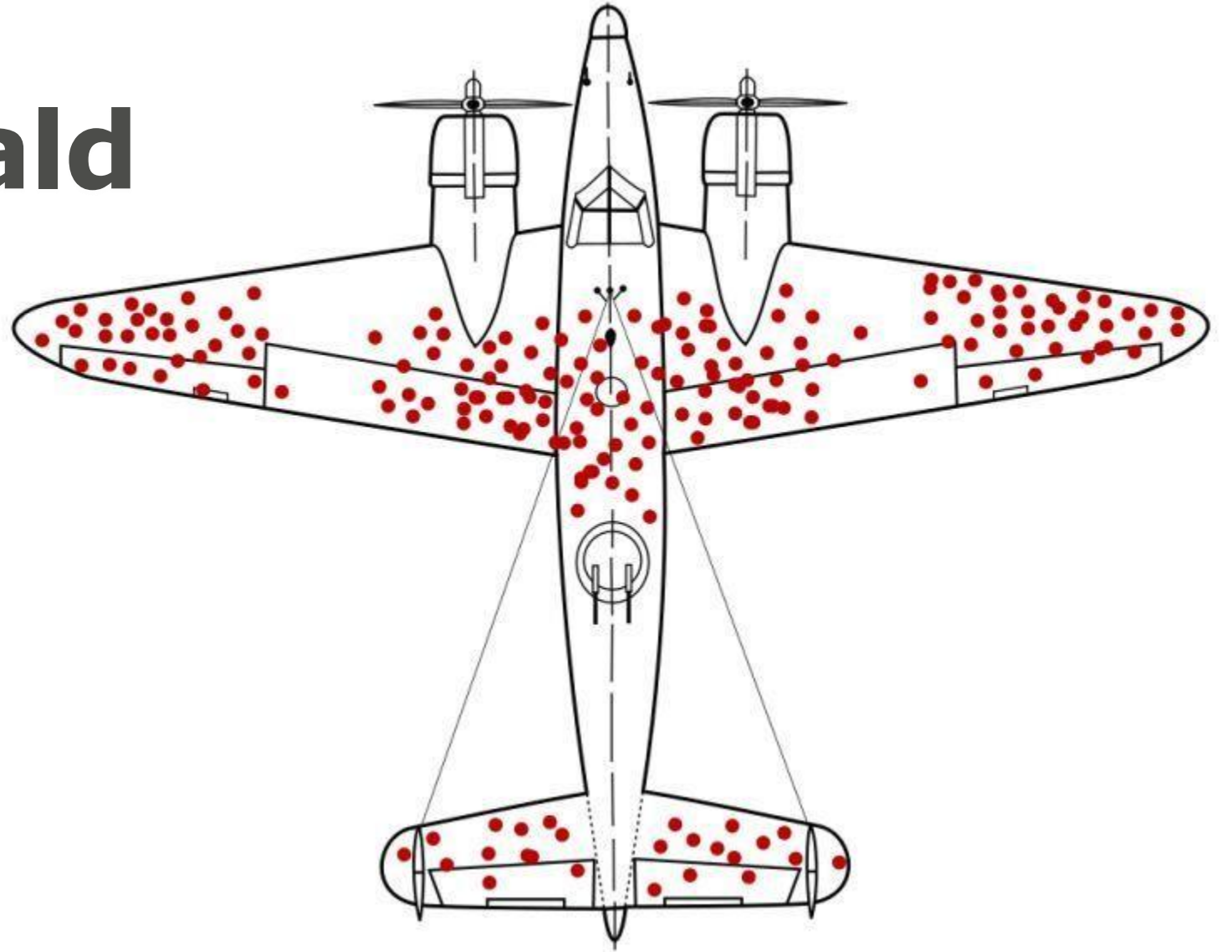
The data foundation

Key elements:

- Thematic datasets provided by the corresponding sectoral authority (data owners)
- Data available through standardized geospatial services by the individual data owner. (Mainly OGCs WMS, WMS-T, and WFS at the moment).
- Datasets and services documented by the data owner through metadata registrations in the national SDI (official announcement / productification of a dataset / service)
- Terminology and cartography harmonized and adjusted to the user needs



The story of Abraham Wald



MAP client / Portal

Collaboration

Collaboration

MAP client / Portal

Radical new approach:

17 PARTNERSHIPS
FOR THE GOALS



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



2 ZERO
HUNGER

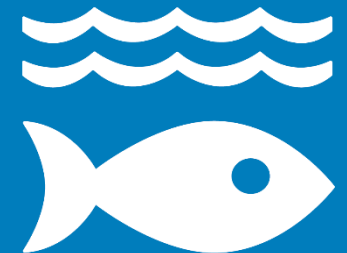
11 SUSTAINABLE CITIES
AND COMMUNITIES

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION

13 CLIMATE
ACTION

15 LIFE
ON LAND

14 LIFE
BELOW WATER





19

Commercial activities
[Click for details](#)



36

Environmental values
[Click for details](#)

26

Natural resources
[Click for details](#)



28

Plans and regulations
[Click for details](#)



9

**State of the environment
and effects of human act...**
[Click for details](#)

Natural Resources

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

- | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  Fish
Click for details |  |  Sea mammals
Click for details |  |  Petroleum finds
Click for details |  |
|  Bivalves
Click for details |  |  Crustaceans
Click for details |  |  Sand and Gravel
Click for details |  |
|  Marine habitats
Click for details |  |  Seabirds
Click for details |  |  Oil and gas discoveries
Click for details |  |



> Natural Resources > Datasets

Natural Resources -- Marine Habitats (7 datasets)











F_{indable} A_{ccessible} I_{nteroperable} R_{eusable}

Themes

- Natural Resources
- Fish
- Crustaceans and bivalves
- Marine Habitats
- Seabirds
- Sea Mammals
- Sand
- Oil and Gas Discoveries
- Environmental Values
- Commercial activities
- State of the environment and effects of human activities
- Plans and Regulations

Countries ▶

Oceans ▶

	<p>Acoustic backscatter, confidential data Submitted 12-12-2020 Ocean: Skagerak</p> 					▶
	<p>Acoustic backscatter, confidential data Submitted 12-12-2020 Ocean: North Sea</p> 					▶
	<p>Biotopes Submitted 12-12-2020 Ocean: North Sea</p> 					▶
	<p>Biotopes Submitted 12-12-2020 Ocean: Barents Sea</p> 					▶
	<p>Biotopes Submitted 12-12-2020 Ocean: Skagerak</p> 					▶

Generate report

Natural Resources -- Marine Habitats (7 datasets)

F_{indable} A_{ccessable} I_{nteroperable} R_{eusable}



10

Acoustic backscatter, confidential data
Submitted 12-12-2020
Ocean: Skagerak



Findable



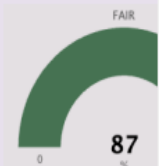
Accessible



Interoperable



Reusable



- ✓ F1: (Meta)data are assigned a globally unique and persistent identifier
- ✓ F2: Data are described with rich metadata
- ✓ F3: Metadata clearly and explicitly include the identifier of the data they describe
- ✗ F4: (Meta)data are registered or indexed in a searchable resource

- ✗ A1: Datasets are available through standard web protocols and open standardised services
- ✗ A2: Metadata are accessible, even when the data are no longer available

- ✗ I1: Metadata and datasets are represented through international, well-documented and accessible standards.
- ✓ I2: Metadata and datasets shall use vocabularies, concepts and code lists and refer to searchable resources on the
- ✓ I3: (Meta)data include qualified references to other (meta)data

- ✓ R1.1: (Meta)data are released with clear and accessible and resolvable usage license
- ✓ R1.2: Metadata about quality, coverage, processing, calculations, etc. must be provided.
- ✓ R1.3 (Meta)data meet domain-relevant community standards

[Details for this dataset](#)

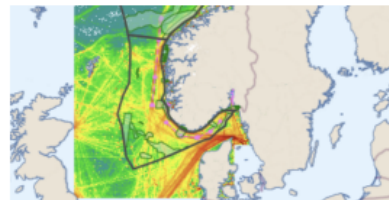
Themes

- Natural Resources
- Fish
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- Marine Habitats
- Seabirds
- Sea Mammals
- Sand
- Oil and Gas Discoveries
- Environmental Values
- Commercial activities
- State of the environment and effects of human activities
- Plans and Regulations

Biotopes



These are downloadable files with unclassified depth data for general use. Depth information is referenced to nautical chart zero level defined in Norway. Coastal contours, coastal construction and islets/awash rocks are referenced to the medium high tide level. This depth data is the basis for the navigational products and the services of the Norwegian Hydrographic Service. Depths. The depth curves are selected in accordance with the Armed Forces navigation plan, i.e., 50m between depths, and the following curve intervals: 2, 5, 10, 15, 20, 30, 40, 50, 100, 150, 200, 250, and so on.



Vis dekningskart

Explanation of assessment of FAIR principles:

There have made various tests to evaluate datasets in relation to the FAIR criteria. These are our interpretations, which then assess the criteria in relation to standards and protocols used for spatial data in Norway and Europe. For more information on which calculations we use for each indicator, look at the details of FAIR assessments for each specific dataset.

Timeline present Last ned data

- [Metadata](#)
- Productspesification
- GML
- WMS
- WFS
- Atom feed
- Download requirements
- WCS
- GeoJson
- Untitled

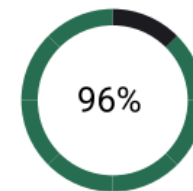
TOTAL SCORE



Findable

- F1: (Meta)data are assigned a globally unique and persistent identifier
- F2: Data are described with rich metadata
- F2: Data are described with rich metadata
- F4: (Meta)data are registered or indexed in a searchable resource

FAIR SCORE



Accessible

- A1: Datasets are available through standard web protocols and open standardised services
- A2: Metadata are accessible, even when the data are no longer available

Findable

- I1: Metadata and datasets are represented through international, well-documented and accessible standards.
- I2: Metadata and datasets shall use vocabularies, concepts and code lists and refer to searchable resources on the web that are managed with unique identifiers.
- I3: (Meta)data include qualified references to other (meta)data

Findable

- R1.1: (Meta)data are released with a clear and accessible and reusable data usage license



Acoustic backscatter, confidential data

The species living on the sea floor is not evenly distributed, but occur in patches related to...



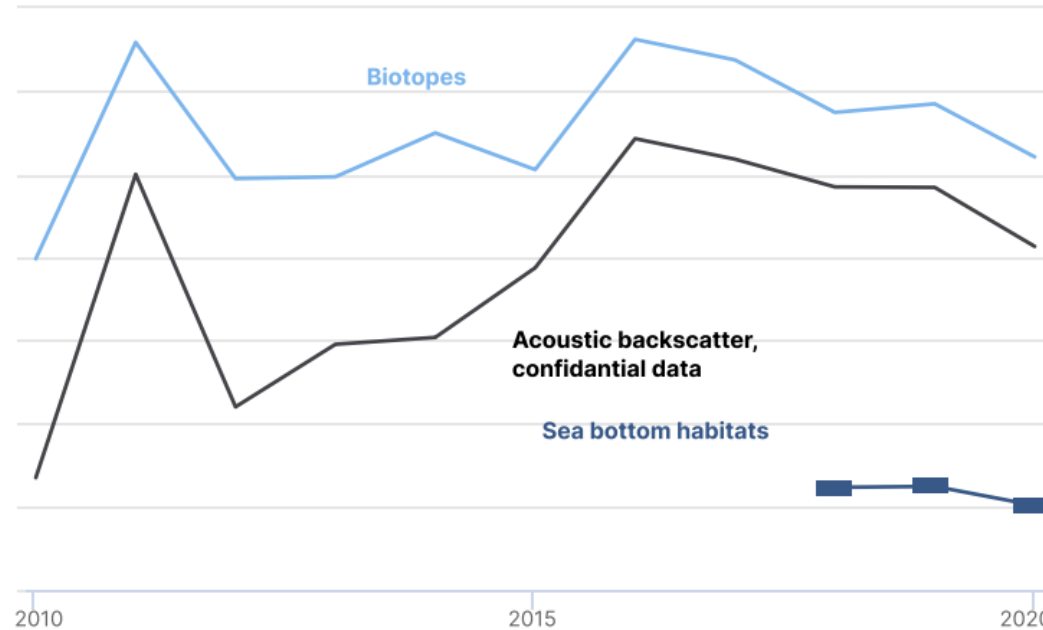
Biotopes

The species living on the sea floor is not evenly distributed, but occur in patches related to various environmental and bottom types or habitats. This distribution is important to know in order to manage the seabed in the most sustainable way.

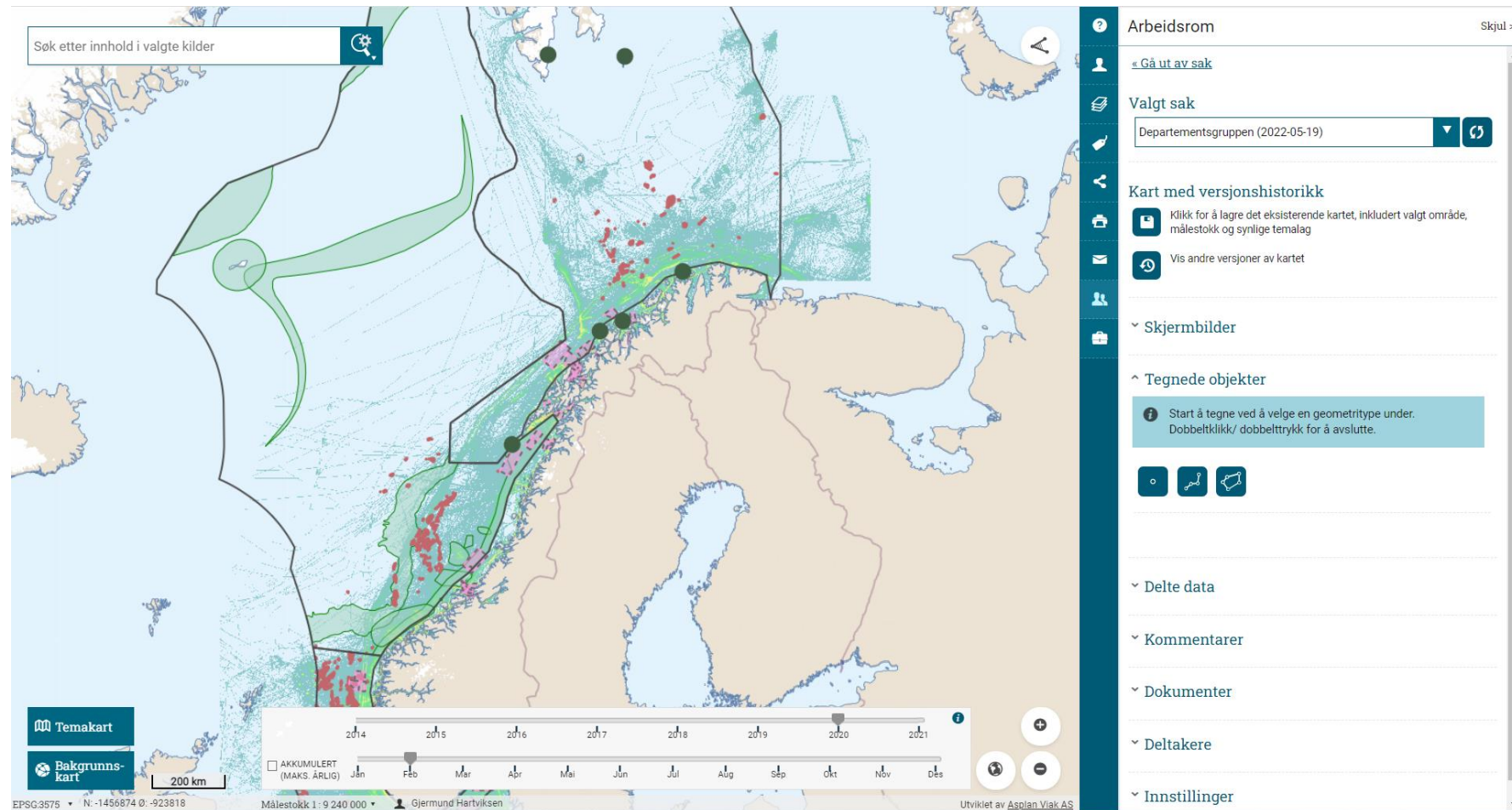


Sea bottom habitats

The species living on the sea floor is not evenly distributed, but occur in patches related to...



Development collaborative workspace





Søre Vaulen. Foto: Eiliv Leren / terrengmodell: Kartverket

Thank you!



Kartverket

www.kartverket.no

Njål Tengs-Hagir (IPA: [fatʃili'tator])
Direktør Forretningsutvikling

Sjødivisjonen

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Epost: njal.tengs-hagir@kartverket.no

