



Kartverket

# National report Norway

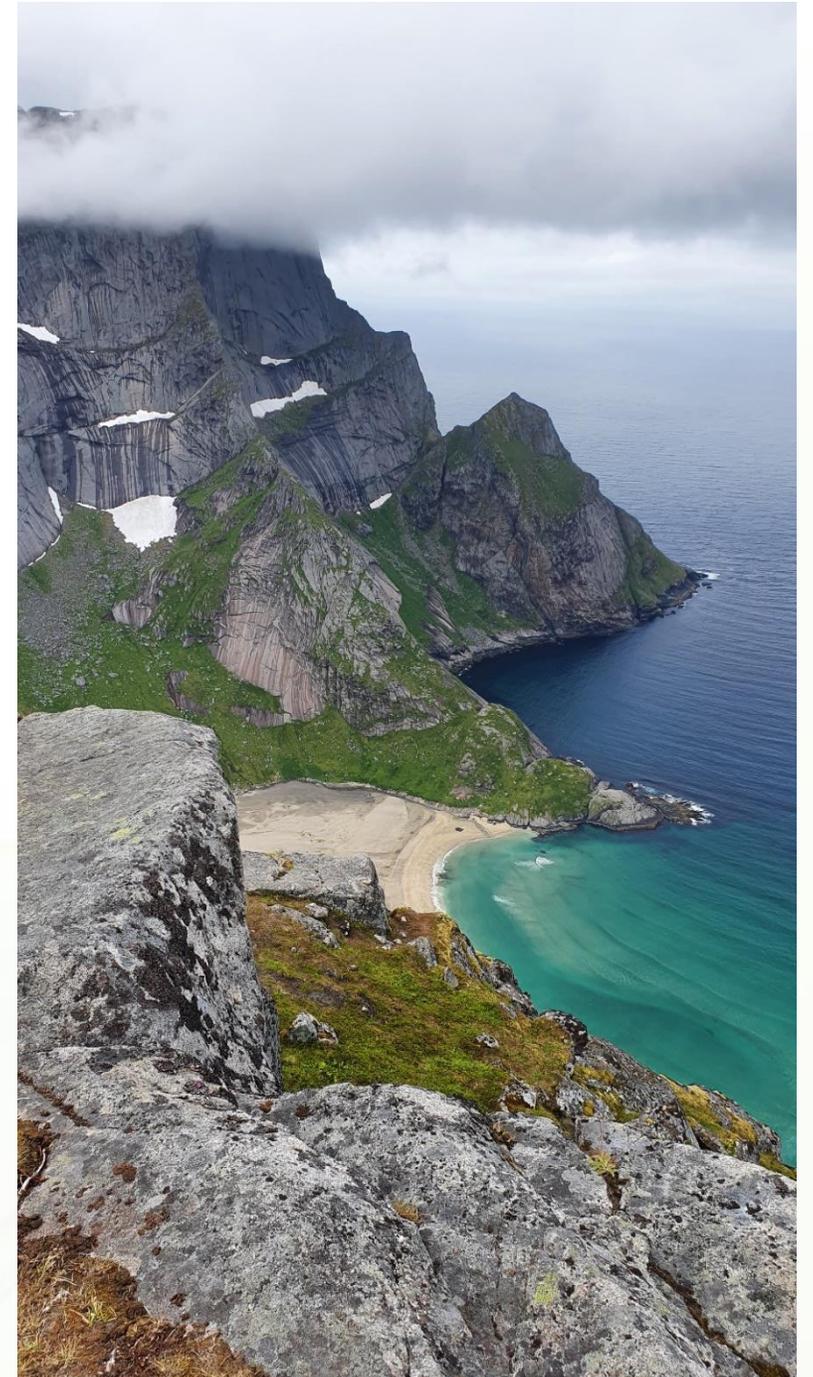
*NHC64*

*20 + 21 April, Virtual*

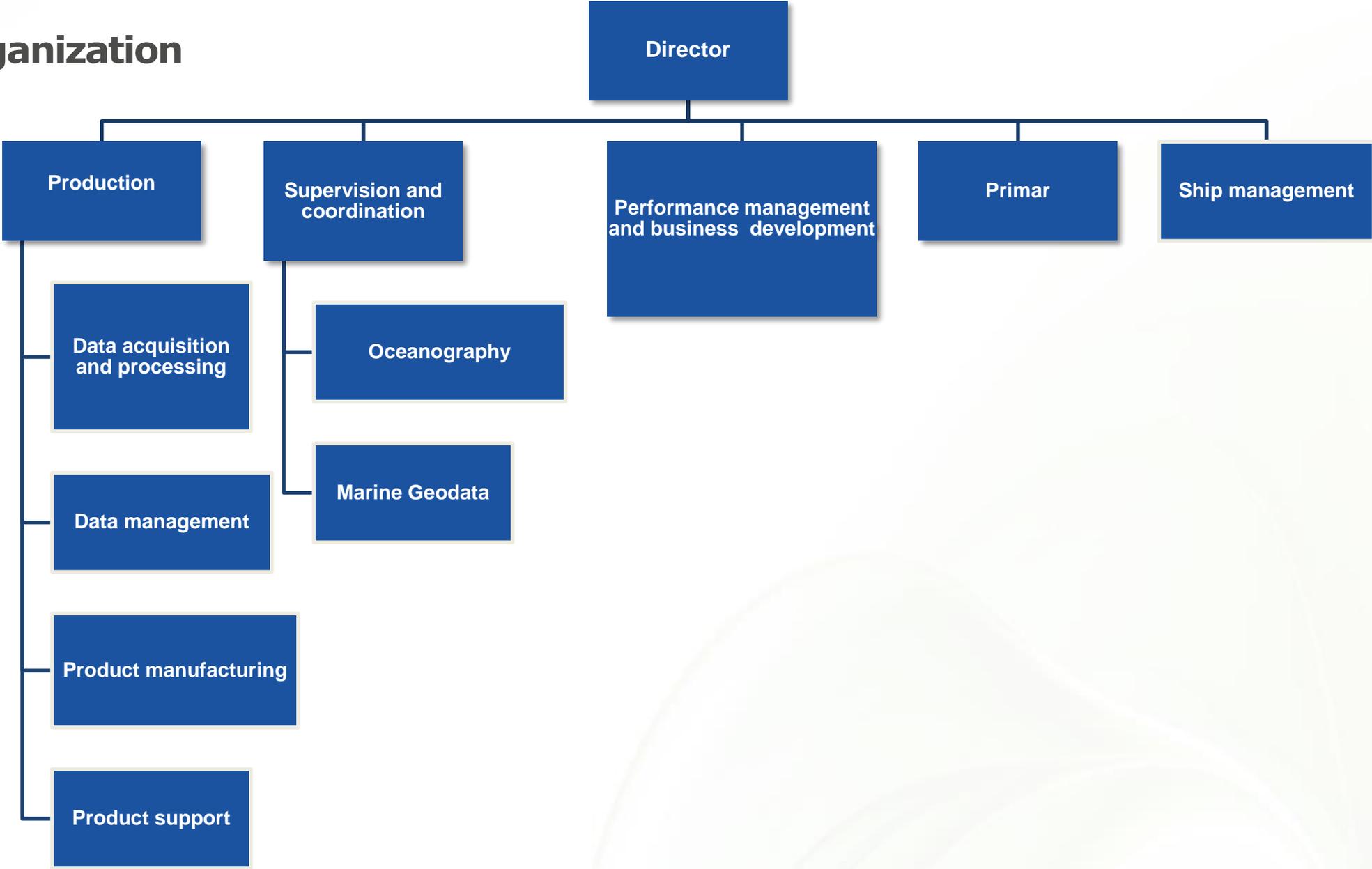


# Highlights

- Operation during pandemic
- New organization
- Strategy work / new vision
- Digital Nautical Publ.
- S-102 project
- Marine base maps in Norway (MAGIN)
- New Hydrographic Infrastructure
- Seabed 2030 in Norway



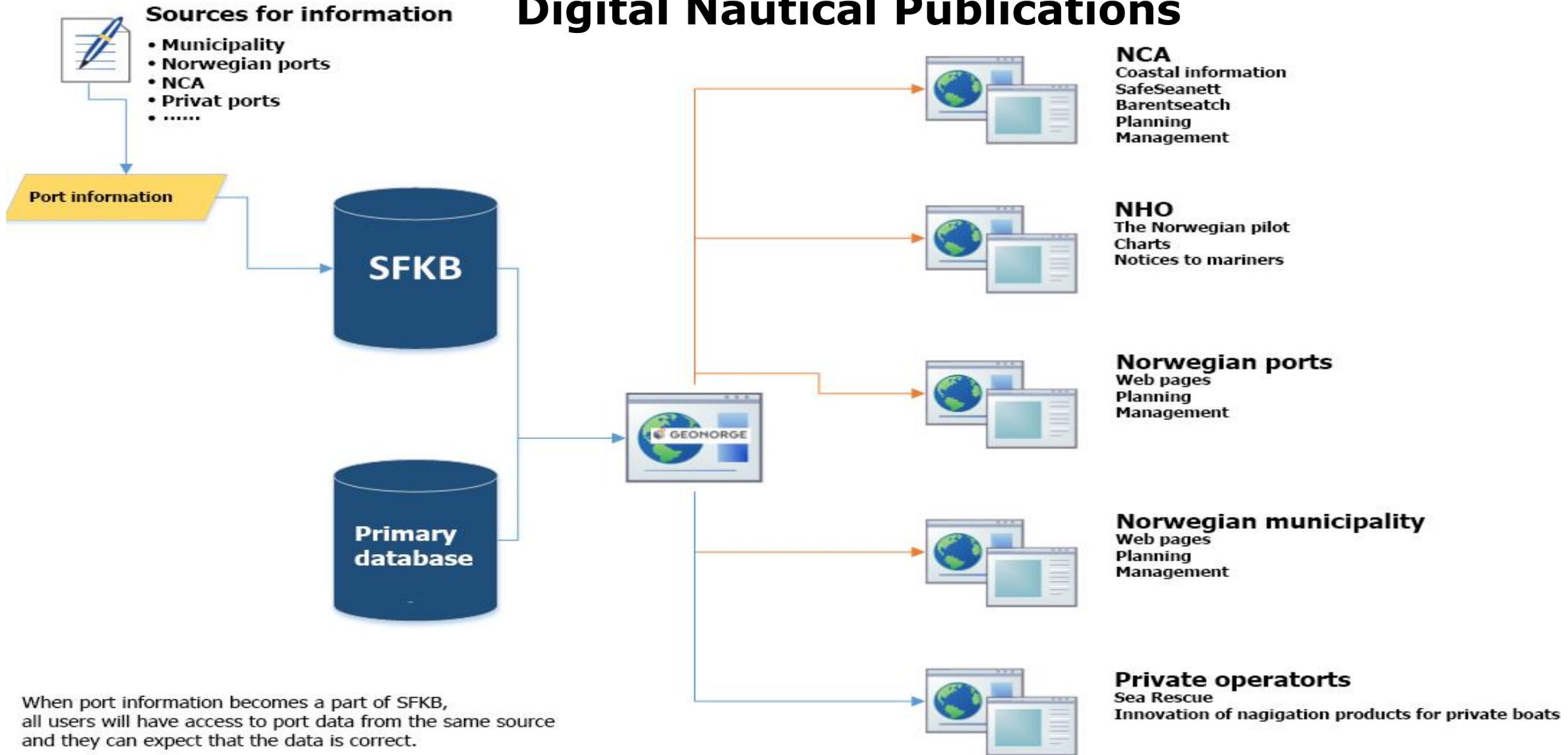
# New Organization



# Vision for Norwegian Hydrographic Service:

***"Norwegian waters shall have the world's most usable and dynamic geographic data"***

# Digital Nautical Publications



When port information becomes a part of SFKB, all users will have access to port data from the same source and they can expect that the data is correct.

The examples that are submitted are probably only some of them.

With this approach, all government agencies will retrieve data from the same source..

## S-102 Developments





# Marine Base Maps for the Coastal Zone Norway

**Is all about gathering detailed information and boosting the knowledge of the sea bed and marine coastal systems along Norway's coast - for a sustainable ocean economy.**

# The aim is

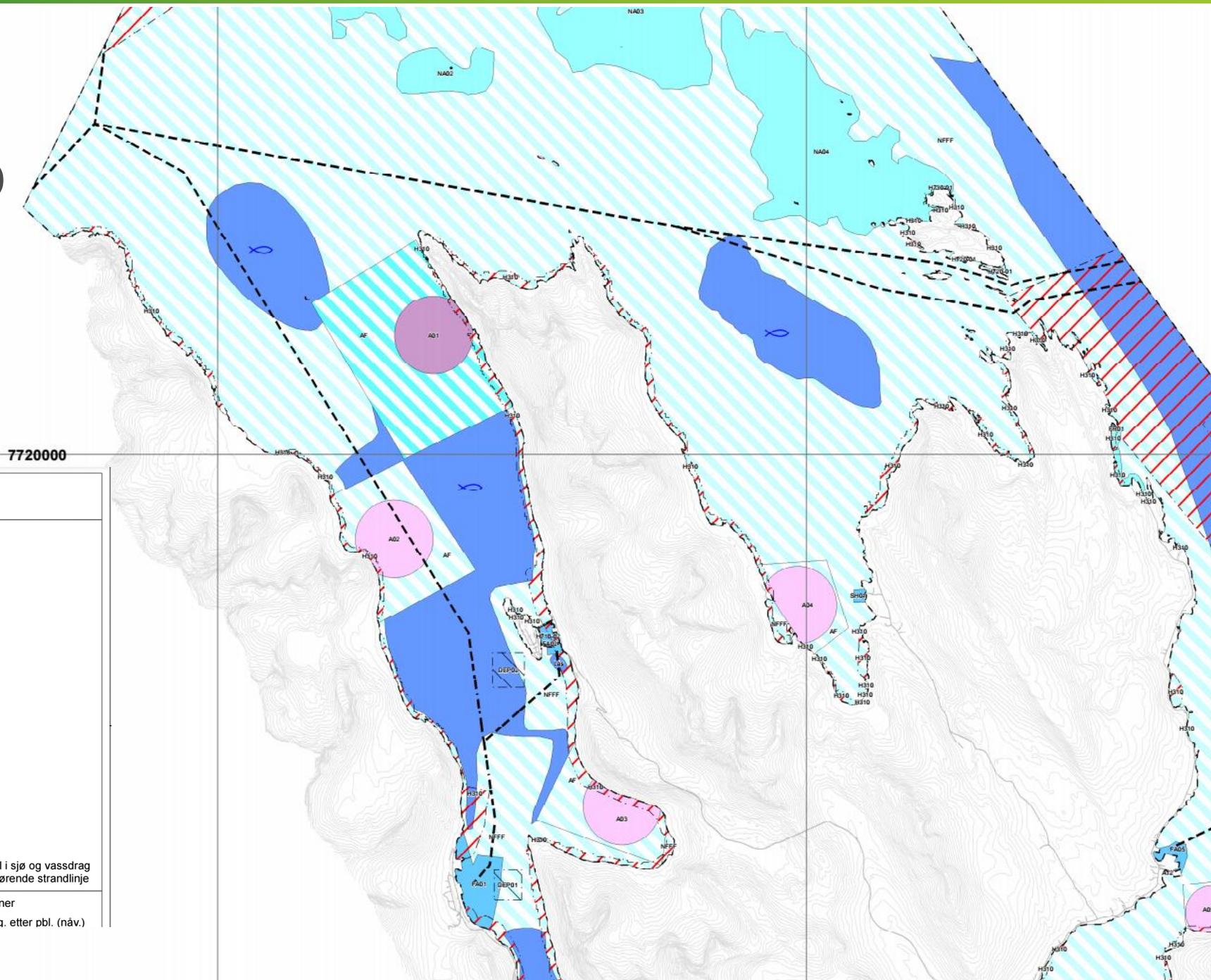
- to provide new business opportunities
- stimulating and optimising the growth of industries
- better public administration and
- effective coastal zone management

to benefit people, nature and the economy



***3 pilot areas***

# Regulation of the Sea basin with help of marine spatial management tool



**TEGNFORKLARING**  
PBL § 11 KOMMUNEPLANENS AREALDEL

Nåværende	Fremtidig
<b>BEBYGGELSE OG ANLEGG (PBL § 11-7, nr 1)</b>	
FT Fritids- og turistformål	
N Næringsvirksomhet	
<b>SAMFERDSELSANLEGG OG TEKNISK INFRASTRUKTUR (PBL § 11-7, nr 2)</b>	
Veg	
H Havn	
--- Farled	
..... Småbåtled	
<b>BRUK OG VERN AV SJØ OG VASSDRAG (PBL § 11-7, nr 6)</b>	
FE Ferdsel	
FA Farled	
SH Småbåthavn	SH Småbåthavn
Fiske	
A Akvakultur	A Akvakultur
NA Naturområde	
FR Friluftsområde	
Kombinerte formål i sjø og vassdrag med eller uten tilhørende strandlinje	Kombinerte formål i sjø og vassdrag
<b>HENSYNSONER (PBL § 11-8)</b>	
H180 Andre sikringssoner (settefiskanlegg)	H570 Bevaring kulturminner
	H710 Bandleiing for req. etter pbl. (nåv.)



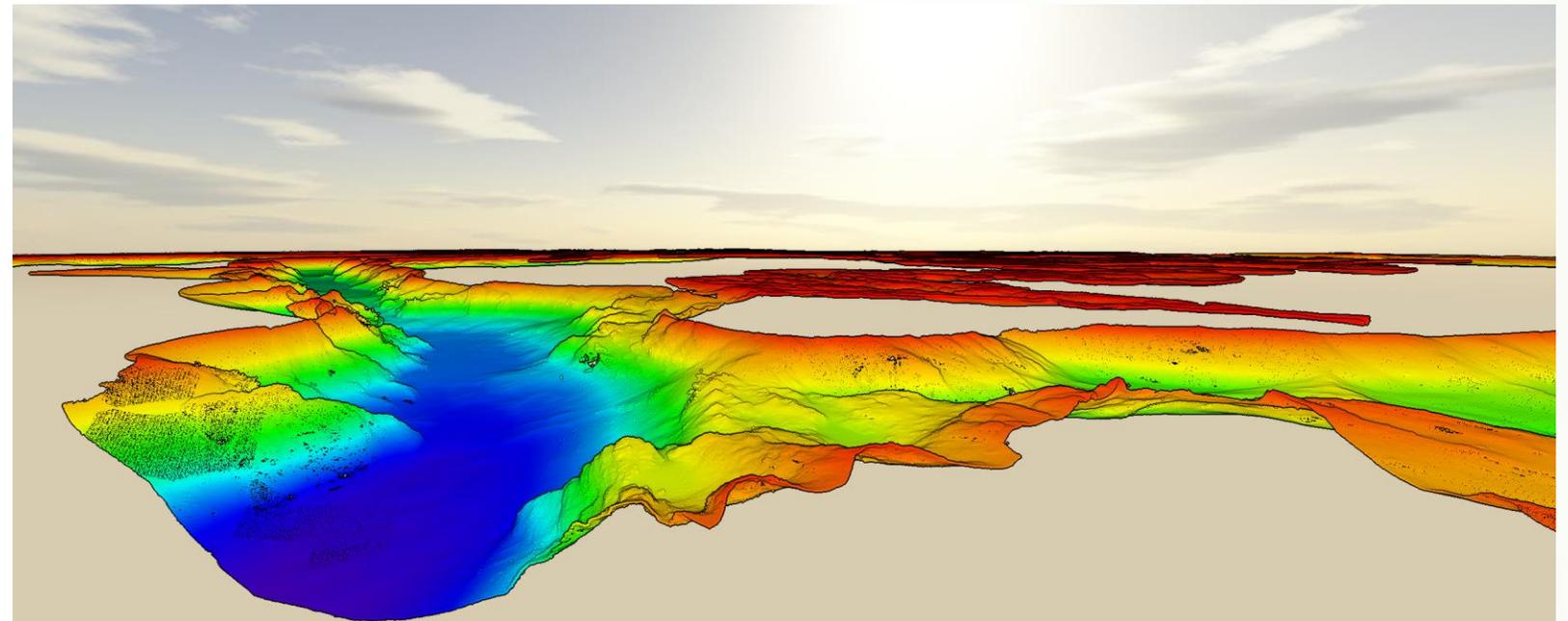
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**NAUTILUS**



## *New Hydrographic Infrastructure*

*for Management, Preparation and Dissemination of Marine Geodata*



# NAUTILUS

## *New Hydrographic Infrastructure*

A modern solution, allowing **more data** faster **accessible** for **more users**

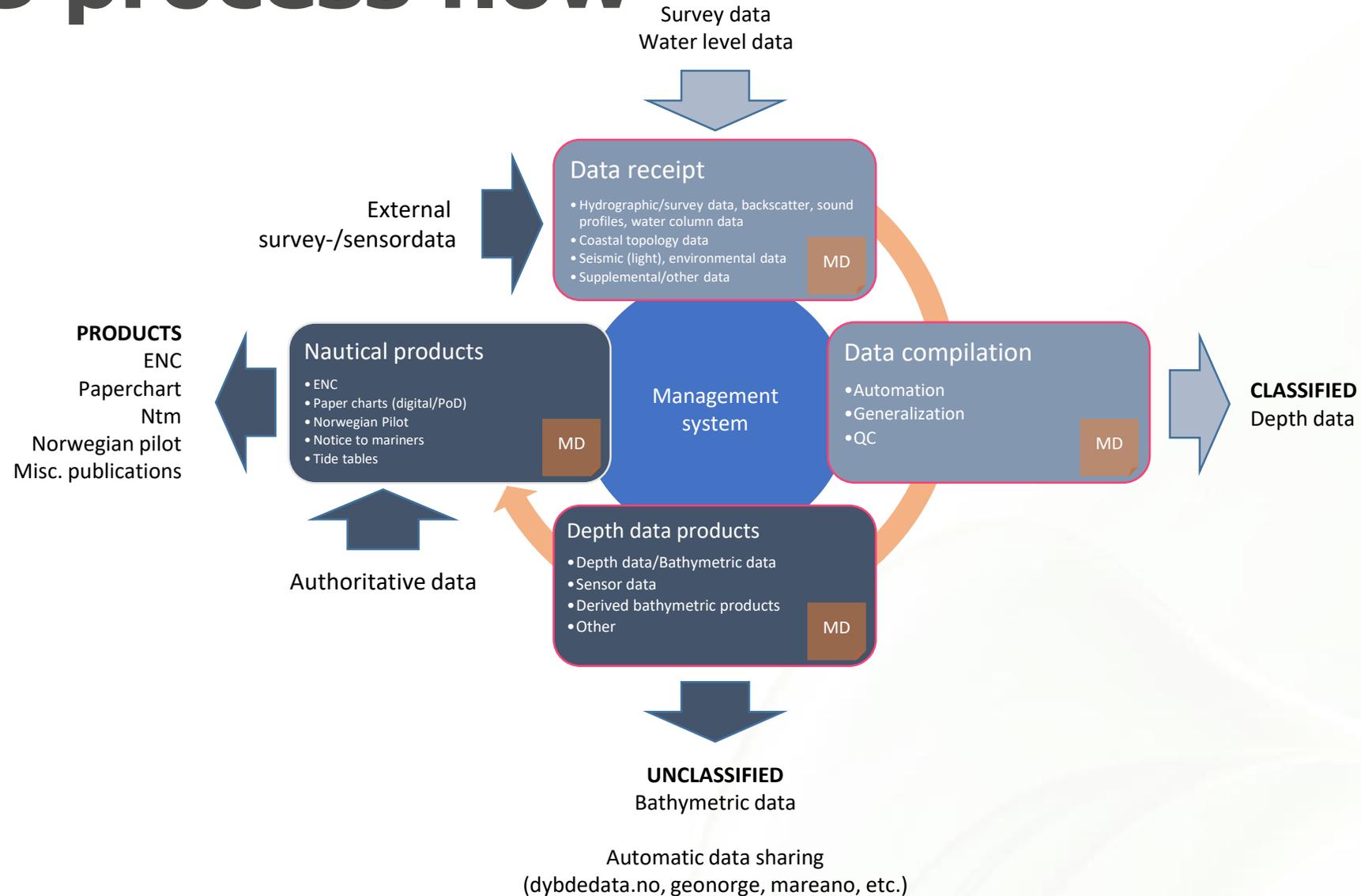


- One common and integrated solution
- Effective source data receipt, assessment and administration
- Automate processes and procedures
- Support new and improved products and services
- Effective and integrated data dissemination
- Build and promote innovation
- Support new classification regulations
- Improve and automate production
- Utilize authoritative data
- Improve/automate quality control procedures
- Ease system operation and maintenance
- Solution expected to be "data generic" and support "dynamic" data handling

# NHI's Rational

- NHI is mainly based on user requirements and expectations
- Ensure effective access to and dissemination of high resolution hydrographic data
- Enable and actively seek innovation, machine-to-machine solution, automation and machine learning
- Continued focus on Safe and Effective navigation - *safety of life at sea*
- Better data will allow for a more effective and environmental friendly maritime and marine business
- Significant operational and financial values, both in the form of increased activity and cost savings, for shipping, aquaculture, port operations, environmental activities, coastal zone planning at municipalities & counties etc. are expected with better access to high quality data.
- Improved knowledge and competence

# NHS process flow



# Seabed 2030

Current status Seabed 2030  
In Norwegian waters  
(based on NHS data)

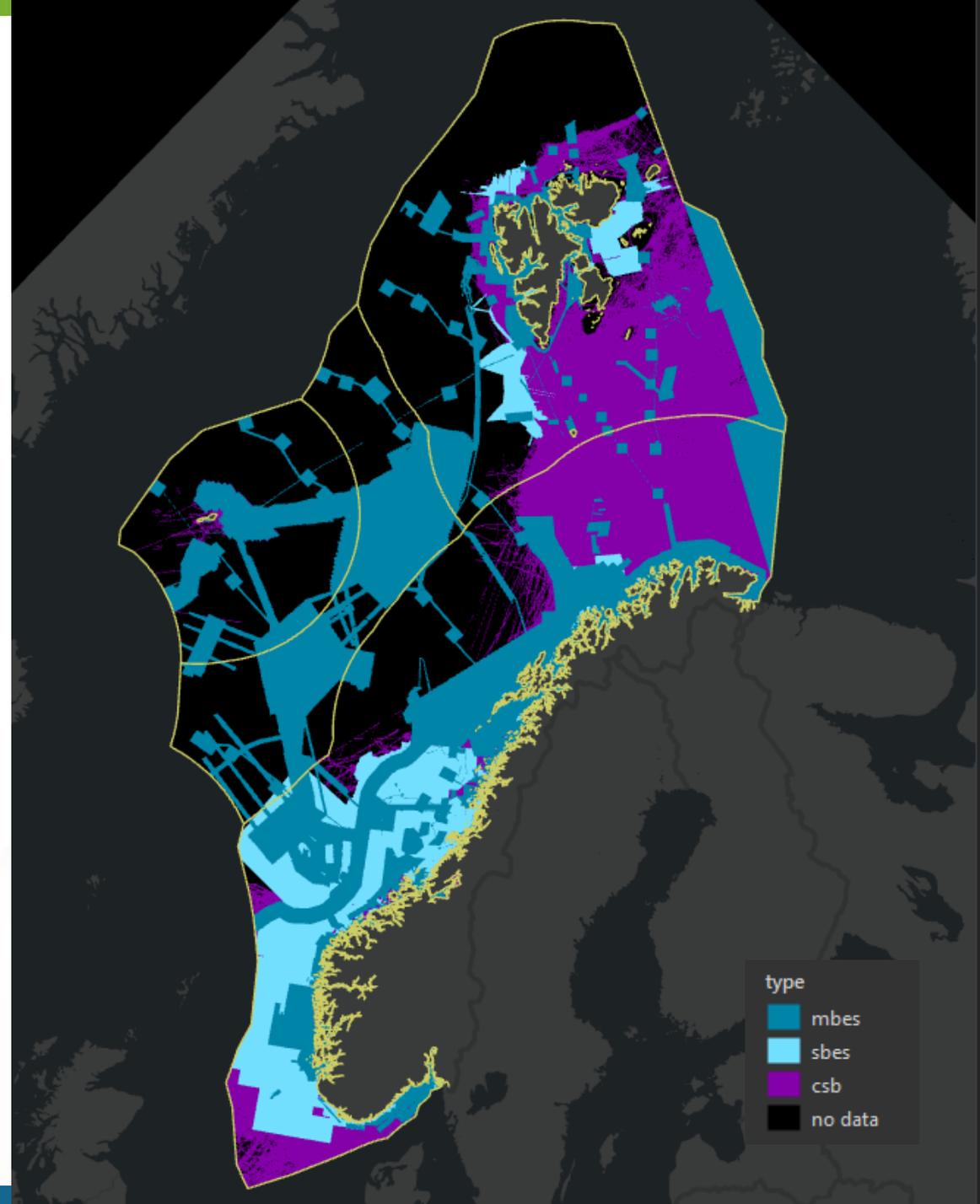
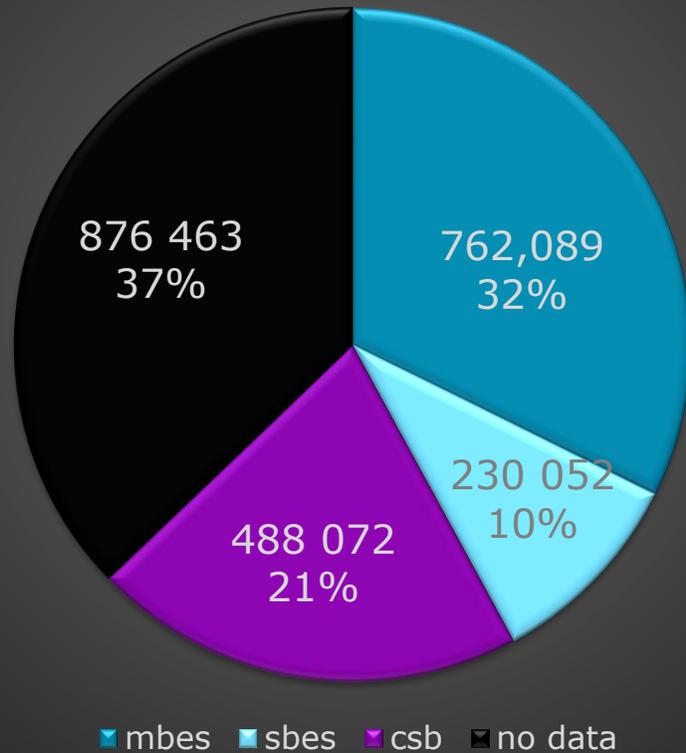
63% mapped (1 480 213  
km<sup>2</sup>) but 33% made publicly  
available (5% up).

(876 453 km<sup>2</sup> remaining)



# Distribution of data and gaps

Norwegian Seabed2030 Coverage (km<sup>2</sup>/%)

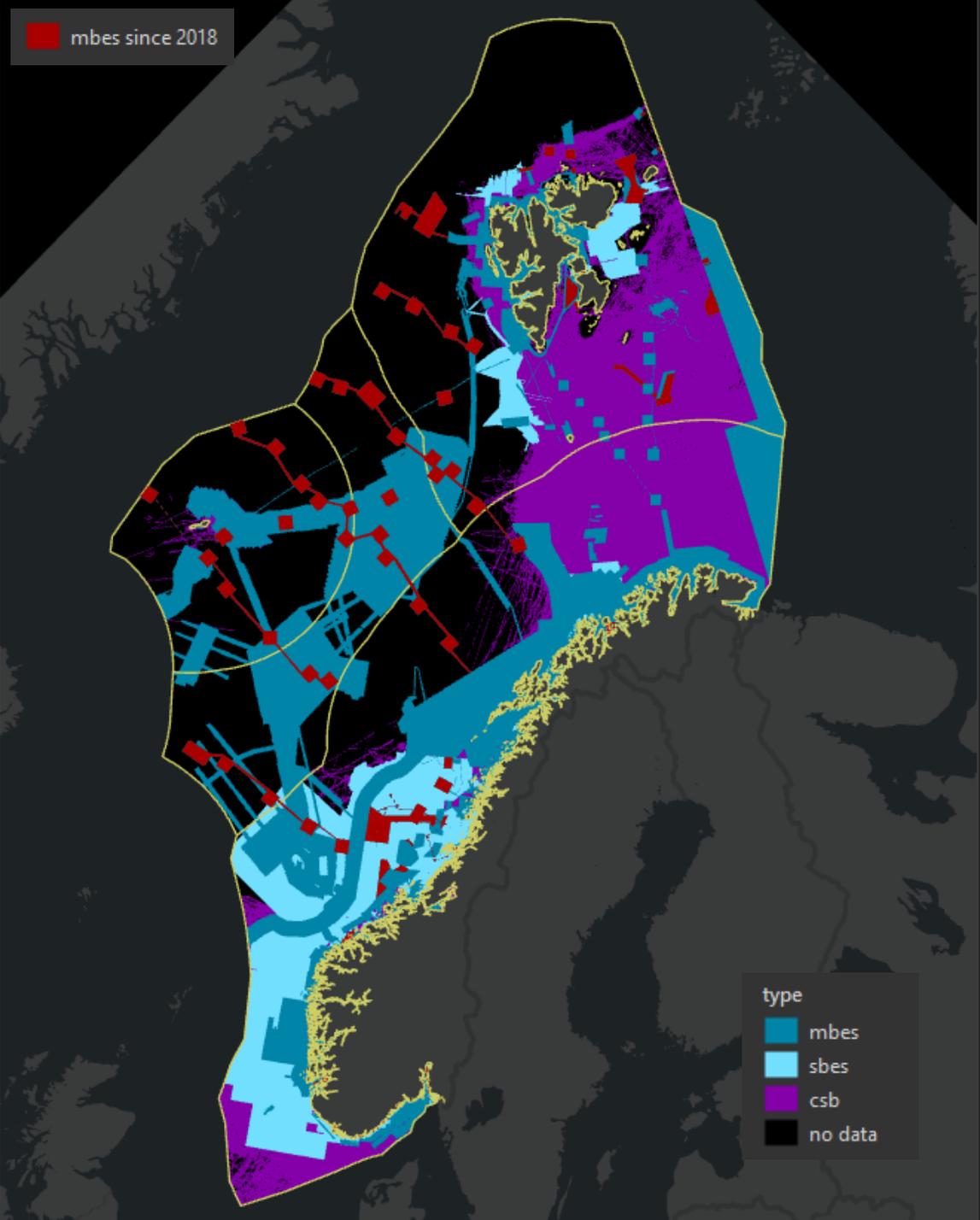


# Increase since 2018

95587 km<sup>2</sup> MBES added since 2018

- 2018 18796
- 2019 76709
- 2020 82

52% new (49705 km<sup>2</sup>),  
48% overlap with existing MBES,  
SBES and CSB coverage (45882 km<sup>2</sup>)



# Challenges and way ahead

Mapping the Norwegian gaps:

- CSB potential is limited:
  - CSB mainly up to 1000m depth
  - AIS heatmap shows minimal activity in gaps
- NHS lacks data from Scientific cruises (cooperation with Stockholm University)
- AUV?



# Seismic Survey company PGS signs agreement with Seabed 2030

oceannews.com/news/science-technology/pgs-fleet-to-support-the-nippon-foundation-gebc

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Science & Technology

## PGS Fleet to Support the Nippon Foundation GEBCO Seabed 2030 Project

Posted by Ocean News

Published: 25 November 2019

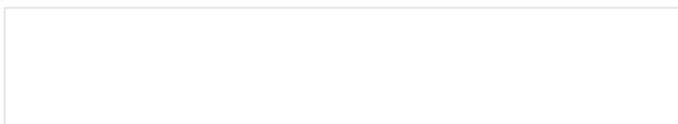


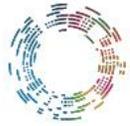


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Norway establishes international high-level panel on sustainable ocean economy

# Norway establishes international high-level panel on sustainable ocean economy





HIGH LEVEL PANEL for  
**A SUSTAINABLE  
OCEAN ECONOMY**

## About the Panel

The High Level Panel for Sustainable Ocean Economy is a unique initiative of 14 serving world leaders building momentum towards a sustainable ocean economy, where effective protection, sustainable production and equitable prosperity go hand-in-hand.

# NHC65: Stavanger April 2022



# Questions?

