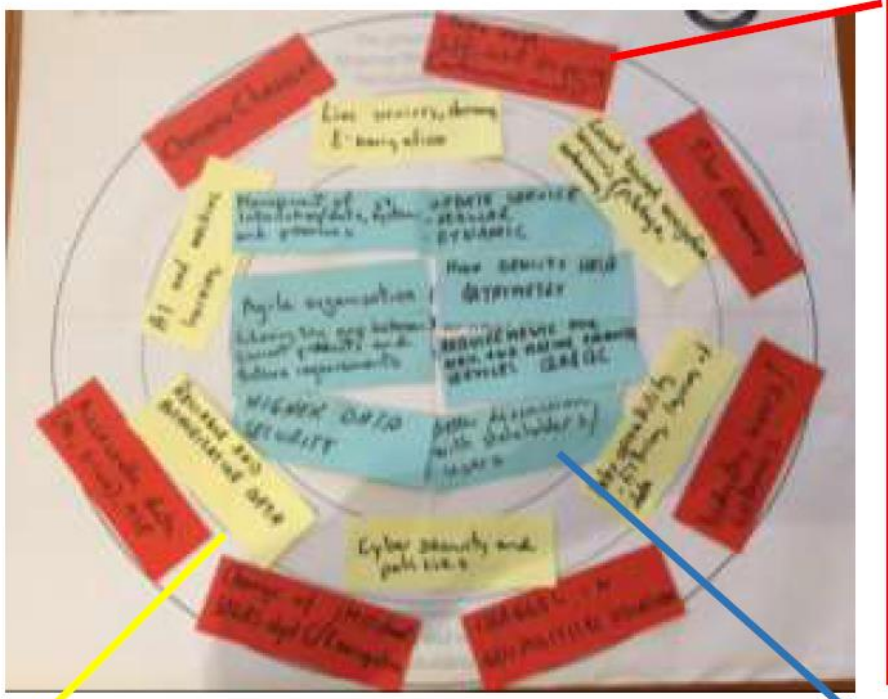


Looking at the National HO from a 2026/2030 perspective. Looking outside and in.
What are the most important initiatives/developments?

- Climate change
- Safe and efficient shipping (autonomous vessels)
- Blue economy
- Industry users/costumers
- Changes in geopolitical situation
- Change of IMO stand. SOLAS chapter 5/E navigation
- Accessible data (B1, S-100), M5P

What are the 3 to 5 most important demands/requirements?

- Live services, streaming, E-navigation
- Land based navigation services ("piloage", autonomy)
- Interoperability – filtering, layering of data
- Cybersecurity and policies
- Reliable and authoritative data
- Al and machine learning

Actions from the national HO to meet the demands /requirements:

- Management of information/data, systems and processes
- Agile organization
- Closing the gap between current products and future requirements
- Higher data security
- Update service: regular, dynamic
- High density data bathymetry
- Requirements for NAV. and marine and products/services QA & QC
- Better discussion with stakeholders/users

Strategic goals 2025
Norwegian mapping authority

As national geodata co-ordinator NMA will act as a catalyst supporting Norway in the goal of becoming a leader in the utilization of geographic information.

- Geographic infrastructure will be a mainstay in the national knowledge base that contributes to growth and helps solve important challenges faced by society.
- NMA is a driving force in the development of new standards, technological solutions and models for co-operation.
- As a governmental authority we ensure that important geographical related data are secure and of sufficient quality.

Through co-operation we will develop the geographic infrastructure to become the digital twin of the community as a foundation for a sustainable society

- Citizens, private and public institutions willingly share geographically referenced information from both land and sea in a shared digital twin.
- The twin is a part of a number of value chains and act as a platform for innovation, knowledge and support for decisions.
- Our contribution to a sustainable society is to facilitate co-ordination (#17) and deliver national shared solutions (#9)

We make it convenient (uncomplicated) to collect, process and share geographically referenced information

- We collect, process and share geographic information through use of AI and other methods benefitting value chains and administration.
- We develop end execute digital processes and services that improve efficiency, co-ordinate and simplify the dialogue internally and with our customers.
- NMA is a recognized center of competence with a culture that is characterized by co- operation and innovation.

Strategic goals 2025
Hydrographic services, NMA

Marine geodata are accessible, re-usable and reliable

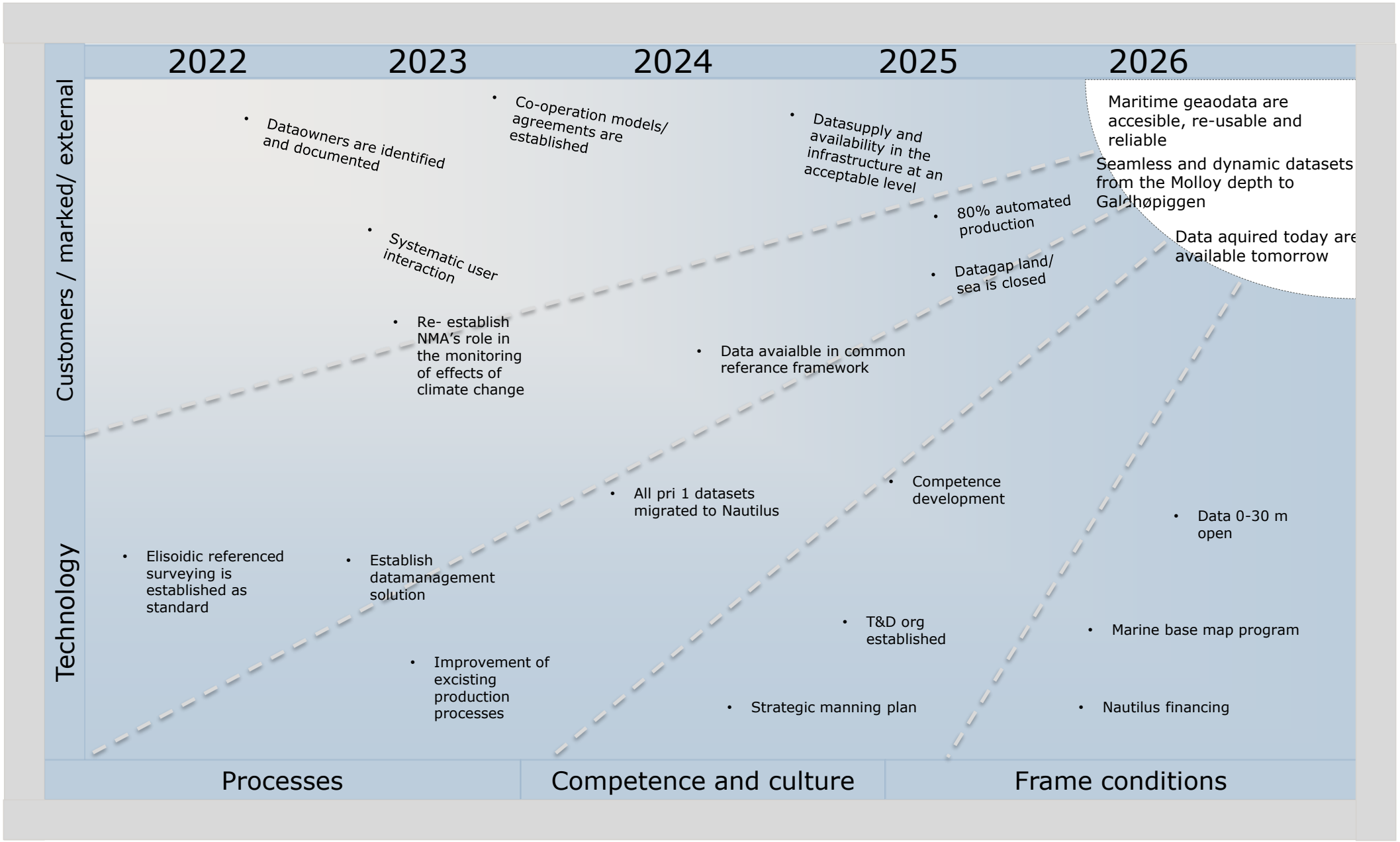
- Data owners share marine geodata and information services.
- Data owners have a commitment to co-operate through digital value chains.
- Marine geodata with associated services support public and private operations.
- All marine geodata and services adhere to the FAIR principles.

Seamless and dynamic datasets from the Molloy depth to Galdhøpiggen

- We close the data gap between land and sea.
- We have established a common geodetic reference framework.
- The data models serve as the basis for all costal management.
- The twin(s)are the foundation for monitoring of the climate effects and for emergency preparedness.

Data acquired today are available tomorow

- We have automated processing and production.
- Reliable data is streamed from the data owners.
- User needs are the drivers for all development and we focus on the simplification and value generation for our customers.


2022
2023
2024
2025
2026
Customers / marked/ external
Technology
Dataowners are identified and documented
Co-operation models/ agreements are established
Datasupply and availability in the infrastructure at an acceptable level
Maritime geaodata are accesible, re-usable and reliable
Seamless and dynamic datasets from the Molloy depth to Galdhøpiggen
Data aquired today are available tomorrow
80% automated production
Datagap land/ sea is closed
Systematic user interaction
Re- establish NMA's role in the monitoring of effects of climate change
Data avaialble in common referance framework
All pri 1 datasets migrated to Nautilus
Competence development
Data 0-30 m open
Elisoidic referenced surveying is established as standard
Establish datamanagement solution
T&D org established
Marine base map program
Improvement of excisting production processes
Strategic manning plan
Nautilus financing
Processes
Competence and culture
Frame conditions

Kartverket