

Norwegian SDI The Marine component

MSDIWG 14 (2023)

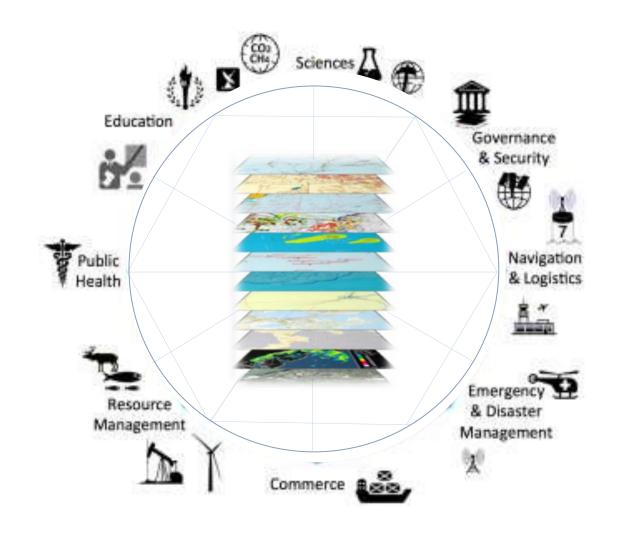


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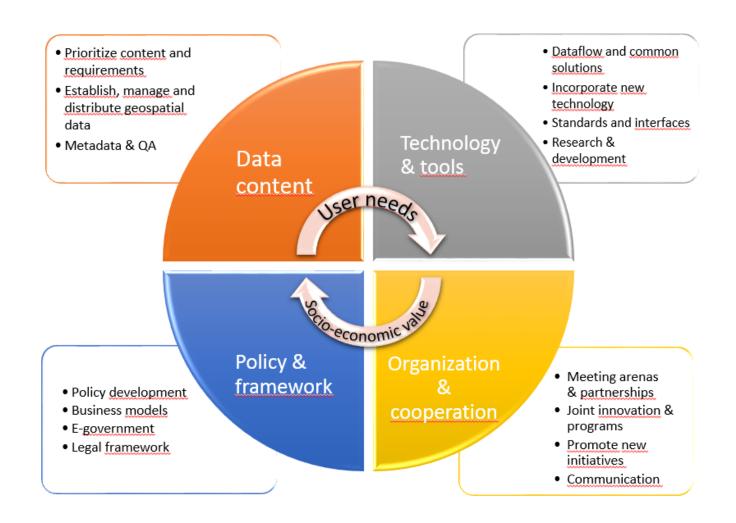
Norway digital

- Cross-sectoral cooperation (since 2005)
- More than 600 organisations representing the public sector
- Enhances the availability and use of quality geographic information
- Sharing and re-using data through digital services across sectors and levels
- Underpinning the digital transformation in public sector





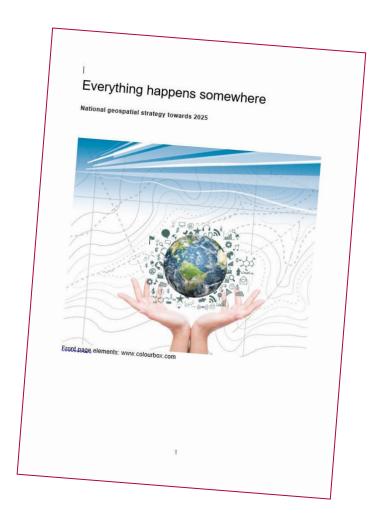
National Spatial Data <u>Infrastructure</u>



Governance

National geospatial strategy towards 2025

- A national knowledge base of geospatial information that comply with important societal needs
- Shared solutions and technology that support effective problem solving and enable new application opportunities in society
- Well-functioning interaction with respect to management, sharing, development and innovation between both public and private actors
- Framework conditions that are predictable and well suited to the challenges of digital society





Governance

Action plan (55 main activities) to the National Geospatial Strategy

Some current examples:

- Identify core data vital to the NSDI
- User need assessment and data accessibility within priority user-areas in society
- Establish Marine Base Map Services supporting Coastal Zone Management
- Increase reusability of geospatial data managed by different sectors
- Mature approaches and develop crowdsource solutions
- Further develop Geonorge as a service-oriented infrastructure platform capable of providing geospatial information relevant to society
- Studies and assessments around analysis-ready data relevant area-planning and decision making
- Development of a National Hydrographic Infrastructure efficient support of maritime geospatial information services
- Development of a National Harbor Database through cross-sectoral interaction and interoperability



Policy

Laws and Regulations

- Freedom of Information Act Facilitate an open, transparent administration and the reuse of public information
- Geodata Act

- Obligations to share geospatial data according to some common demands
- Planning and Building Act
- Geospatial data approved for use in PBA forms the Norwegian Public Base of Geospatial Data (DOK)

Status example

TITLE	OWNER	THEME	
Aquaculture locations	Norwegian Directorate of Fisheries	Marine activities	
Depth data	Norwegian Mapping Authority	Base maps	
Marine regulation zones- kelp harvesting	Norwegian Directorate of Fisheries	Marine activities	
Maritime transport - anchoring areas	The Norwegian Coastal Administration	Marine activities	



Main data topics



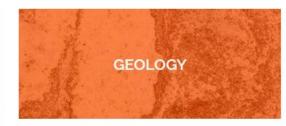
























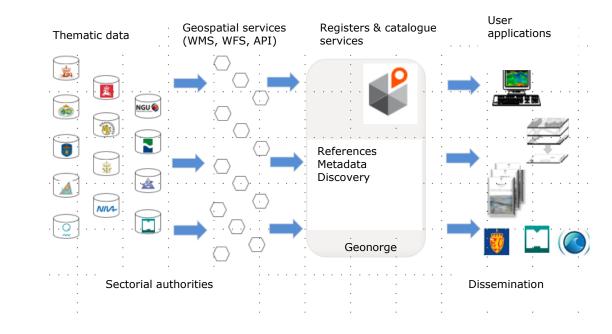


Making geospatial data available

Service based approach

Key elements:

- Sectoral authorities offer thematic geospatial services from data they are responsible for
- A national metadata registration common available through Geonorge
- Standardized and harmonized data according to data model / product specifications
- National registers for objects, presentation rules, documentation, etc.

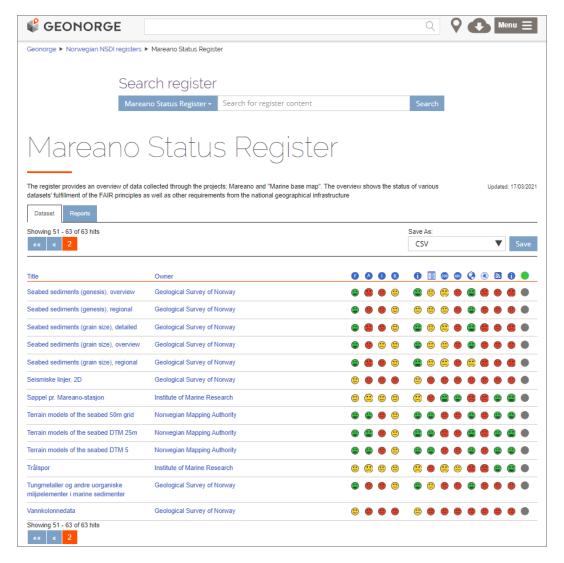




Improve availability and usability

Making data and services more

- Findable
- Accessible
- Interoperable
- Reusable





MSP - Cross-sectoral cooperation

The Management Forum coordinates the work on the scientific basis of the management plans.

Members of the Management Forum:

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





Marine Spatial Management Tool

A cross-sectoral develoment project through an intergovernmental cooperation

A governmental initiative based on the need for a more coherent and uniform geospatial information content, suitable for underpinning tasks attached to marine spatial planning and marine management

- More effective updates of the management plans
- Better overview over political decisions and actions related to marine management
- Contribute to more transparancy, openness and increased involvment from the stakeholders



Marine basemaps in coastal Norway

- Awarded 85 mill NOK over three year period (2020-2022)
- 3 pilot areas agreed upon and completed
- Submitting a proposal for national programme 2022 Cost 3.5 bill. NOK – Net value 5 bill. NOK <u>yearly</u>
- Methods development
- New technology
- Standardized set of products
- Themed according to task / user type
- Datasets, digital maps, services (WMS, WFS, WCS) and statistics WPS
- Self-service: Combine and create your own unique marine base maps
- INSPIRE compliant
- Easy access and FREE on national geodata portal
- Easy to use across competence levels and platforms
- 2 years timeline from data collection to products rollout when available



Testing new technology at Runde, June 2017. Photo: Arild Hareide/Runde Environment Centre



Nordic Council of Ministers

- Approved project2022-2025
- 1.5 mill Euros
- Norway, Sweden,
 Denmark, Faroe
 Islands, Greenland,
 Finland, Åland, Iceland,
 Lithuania, Latvia,
 Estonia

