Marine Spatial Management Tool

Gerhard Heggebø, Norwegian Mapping Agency, Hydrographic Service
Spatial Data Infrastructure

- Prioritize content and requirements
- Establish, manage and distribute geospatial data
- Metadata & QA

Data content

- Dataflow and common solutions
- Incorporate new technology
- Standards and Interfaces
- Research & development

Technology & tools

Policy & framework

- Policy development
- Business models
- E-government
- Legal framework

User needs

Socio-economic value

Organization & cooperation

- Meeting arenas & partnerships
- Joint innovation & programs
- Promote new initiatives
- Communication
Marine Spatial Management Tool

*Support the marine spatial planning process in Norway with authoritative data*

Main stakeholders

- Norwegian Environment Agency
- Norwegian Mapping Authority
- BarentsWatch
- 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

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
Harmonizing cartography
Geospatial statistics
Re-use of data and services in a cross-boarder setting

Example from marine regulations - UK and Norway

Example from licencing systems - Norway, UK, Denmark
Marine Spatial Management Tool

Examples

Status at the moment:

- 30 main data categories available through MSMT
- 12 governmental agencies with responsibilities within the marine domain, provide their data respective thematic datasets and geospatial services
Base map (+ bathymetry)
Particularly valuable marine areas + Base map
Commercial fishing + Valuable marine areas + Base map
Petroleum activity + Commercial fishing + Valuable marine areas + Base map
Offshore wind farm assessments + Petroleum activities + Commercial fishing + Valuable marine areas + Base map