

Table 2: Range of themes and categories of data and information used by MSP planners.

<b>CATEGORY</b>	<b>Examples for datasets commonly used in marine plans</b>	<b>Relevant INSPIRE theme, numbers relate to Annex and subcategory<sup>1</sup></b>
<b>ADMINISTRATIVE BORDERS</b>		
Boundary data	National	Administrative units (1.4)
	Regional	Administrative units (1.4)
	Local	Administrative units (1.4)
	Territorial water	Administrative units (1.4)
	EEZ	Administrative units (1.4)
<b>PHYSICAL/CHEMICAL/BIOLOGICAL INFORMATION</b>		
Physical characteristics	Seabed relief and bathymetry	Elevation (2.1)
	Hydrodynamics	Hydrography (1.8)
	Wind and wave action	Oceanographic geographical features (3.15); Sea regions (3.16)
	Temperature	Hydrography (1.8)
	Turbidity	Oceanographic geographical features (3.15); Sea regions (3.16)
	Water transparency / light	Oceanographic geographical features (3.15); Sea regions (3.16)
	Salinity	Oceanographic geographical features (3.15); Sea regions (3.16)
	Water masses and residence time	Oceanographic geographical features (3.15); Sea regions (3.16)
	Nutrients and oxygen	Oceanographic geographical features (3.15); Sea regions (3.16)
	pH, pCO <sub>2</sub> , sea acidification	Oceanographic geographical features (3.15); Sea regions (3.16)
Types of habitat	Seabed	Elevation (2.1); Habitats and biotopes (3.18)

<sup>1</sup> INSPIRE, Data specifications.

	Water column	Habitats and biotopes (3.18)
	Habitat Directive habitats	Habitats and biotopes (3.18)
	Habitats requiring a specific protective regime	Habitats and biotopes (3.18)
Biological characteristics	Seabed	Habitats and biotopes (3.18)
	Water column	Habitats and biotopes (3.18)
	Angiosperms, macroalgae	Species distribution (3.19)
	Fish populations	Species distribution (3.19)
	Sea mammals migration routes	Species distribution (3.19)
	Spawning and nursery areas	Habitats and biotopes (3.18); Protected sites (1.9)
	Fish migration routes	Habitats and biotopes (3.18); Species distribution (3.19)
	Sea birds	Species distribution (3.19)
	Non-indigenous species introduced through human activities	Species distribution (3.19)
	Species habitats	Protected sites (1.9)
	Bird migration routes	Species distribution (3.18); Habitats and biotopes (3.19)
	Bird wintering grounds	Species distribution (3.18); Habitats and biotopes (3.19)
	Other species listed under Community legislation or international conventions	Species distribution (3.19)
Pressures and impacts	Physical destruction from dredging (e.g. maps on pressure)	Hydrography (1.8); Geology (2.4); Area management/restriction/regulation zones and reporting units (3.11); Sea regions (3.16)
	Eutrophication and algae blooms	Area management/restriction/regulation zones and reporting units (3.11); Sea regions (3.16)
	Physical destruction from extraction (e.g. maps on pressure)	Hydrography (1.8); Geology (2.4); Area management/restriction/regulation zones and reporting units (3.11); Sea regions (3.16)
	Physical destruction from dumping (e.g. maps on pressure)	Hydrography (1.8); Geology (2.4); Area management/restriction/regulation

		zones and reporting units (3.11); Sea regions (3.16)
	Underwater noise (e.g. maps of noise distribution)	Area management/restriction/regulation zones and reporting units (3.11)
	Marine litter (e.g. maps of areas affected by litter)	Sea regions (3.16)
	Introduction of synthetics and heavy metals (e.g. maps with point and distributed pollution sources)	Utility and government services (3.6); Production and industrial facilities (3.8); agriculture and aquaculture facilities (3.9)
	Pollution caused by ships (carbon dioxide)	Human health and safety (3.5)
	Introduction of radionuclides	Human health and safety (3.5); Utility and government services (3.6); Production and industrial facilities (3.8)
	Chemical effects from the dumping of dredged material	Human health and safety (3.5); Utility and government services (3.6); Production and industrial facilities (3.8)
	Introduction of microbial pathogens (e.g. maps of point sources)	Human health and safety (3.5); Utility and government services (3.6); Production and industrial facilities (3.8)
	Introduction of non-indigenous species (e.g. maps of areas at risk of introduction of non-indigenous species)	Utility and government services (3.6); Production and industrial facilities (3.8); Sea regions (3.16)
	Selective extraction of species and bycatch (e.g. maps of areas most affected)	Sea regions (3.16)
	Biological disturbance as a result of sand extraction	Sea regions (3.16)
	Biological effects from the dumping of dredged material	Sea regions (3.16)
<b>ACTIVITIES/USES</b>		
Aquaculture	Designated aquaculture areas	Agricultural and aquaculture facilities (3.9)
	Potential aquaculture areas	Agricultural and aquaculture facilities (3.9)
Fishing	Inshore fisheries mapping	Production and industrial facilities (3.8)
	VMS amalgamated density layers	Production and industrial facilities (3.8)

	Number of vessels	Production and industrial facilities (3.8)
	Capacity of vessels	Production and industrial facilities (3.8)
	Vessels according to fishing method	Production and industrial facilities (3.8)
	Fishery harbours	Geographical names (1.3)
	Fish landings per harbour	
	Fish processing industry (location)	Production and industrial facilities (3.8)
	Gross added value (national)	
	Gross added value (regional)	
	Direct employment	
	Indirect employment	
	Important fishery areas (for different types of fishery)	Land use (3.4)
	Spatial distribution of fishing activity (by type of fishery)	
	Vessel movements to and from ports (by size of boat/type of fishery)	
	Economic importance of fisheries	
	Fishing management areas (where certain types of fishing is restricted)	Area management/restriction/regulation zones and reporting units (3.11)
Renewable energies	Location of existing wind farms/wave energy/tidal energy sites	Energy resources (3.20)
	Number of turbines/other plants	Energy resources (3.20)
	Total surface area covered	Energy resources (3.20)
	Water depth	Elevation (2.1)
	Shortest distance to the coast	Energy resources (3.20)
	Cable landing points	Energy resources (3.20)
	Location requirements and potentially suitable sites	Energy resources (3.20)
	Expected annual ship movements for maintenance	Energy resources (3.20)
	Direct employment	

	Indirect employment	
Installations & infrastructure	Electricity cables	Utility and governmental services (3.6)
	Safety Zones / Construction Fields	Area management/restriction/regulation zones and reporting units (3.11)
	Platforms	Utility and governmental services (3.6)
	Buoys, Pods (with link to Energy Production)	Utility and governmental services (3.6)
	Tunnels	Transport networks (1.7)
	Bridges	Transport networks (1.7)
	Masts	Environmental monitoring facilities (3.7)
Maritime transport routes and traffic flows	IMO Routes	Transport networks (1.7)
	Fairways	Transport networks (1.7)
	Roadsteads	Transport networks (1.7)
	Anchorage	Transport networks (1.7)
	Ferry Lines/Routes/ MOS	Transport networks (1.7)
	AIS – several datasets: (different periods/years/seasons?) different Type of Traffic: -All -Cargo -Dangerous Goods -Passenger -Leisure Boats -Fishery -Other/Unknown	Transport networks (1.7)
	Capital and maintenance dredging areas	Area management/restriction/regulation zones and reporting units (3.11)
	Dumping areas	Area management/restriction/regulation zones and reporting units (3.11)
	Restricted areas for shipping	Area management/restriction/regulation zones and reporting units (3.11)

Ports	Port locations	Geographical names (1.3)
	Direct employment in ports	
	Indirect employment in ports	
	Percentage of goods handled	
	Percentage of turnover	
	Total TEU transfer	
	Water depth	Elevation (2.1)
	Accessibility (how is this determined? Number slipways, berthing spots, ...)	
Nature and species conservation sites & protected areas	N2000 areas , SAC/SPAs	Protected sites (1.9)
	MPAs	Protected sites (1.9)
	Ramsar sites	Protected sites (1.9)
	UNESCO Biosphere Reserves	Protected sites (1.9)
	Marine National Parks	Protected sites (1.9)
	Red list species	Protected sites (1.9)
Military	Military training areas	Area management/restriction/regulation zones and reporting units (3.11)
	Radar areas / military observation areas	Area management/restriction/regulation zones and reporting units (3.11)
	Munition disposal sites	Area management/restriction/regulation zones and reporting units (3.11)
Raw material extraction areas	Sand and gravel extraction areas (existing, potential)	Production and industrial facilities (3.8), Mineral resources (3.21)
	Natural gas extraction areas/concession areas	Production and industrial facilities (3.8); Mineral resources (3.21)
	Oil extraction areas /concession areas	Production and industrial facilities (3.8); Mineral resources (3.21)
	Carbon capture and storage areas	Production and industrial facilities (3.8); Mineral resources (3.21)
	Fracking	Production and industrial facilities (3.8)
Scientific research	Research areas	Environmental monitoring facilities (3.7)

	Measuring stations / networks	Environmental monitoring facilities (3.7)
Submarine cable & pipeline routes	Telecommunication/Data cables in use	Utility and governmental services (3.6)
	Telecommunication/Data cables not in use	Utility and governmental services (3.6)
	High Voltage Cables	Utility and governmental services (3.6)
	Pipelines	Utility and governmental services (3.6)
Tourism & recreation	Recreation and tourism areas	
	Leisure / sporting activity sites	
	Marinas	Geographical names (1.3)
	Distribution of activities/sports	
	Distribution of tourists (bed nights)	
	Blue Flag awards	Geographical names (1.3)
	Seascapes	
Underwater cultural heritage	World Heritage sites	Protected sites (1.9)
	Listed monuments	Protected sites (1.9); Buildings (3.2)
	Wrecks	Protected sites (1.9); Buildings (3.2)
	Location of other historic sites	Buildings (3.2)
Coastal defence	Areas used for dredging	Human health and safety (3.5); Area management/restriction/regulation zones and reporting units (3.11); Mineral resources (3.21)
	Managed realignment schemes	Human health and safety (3.5); Area management/restriction/regulation zones and reporting units (3.11); Natural risk zones (3.12)
	Coastal protection schemes	Human health and safety (3.5); Natural risk zones (3.12)
	Flood defence schemes	Human health and safety (3.5); Natural risk zones (3.12)
<b>SPATIAL POLICY</b>		

	Priority areas for activities/uses	Area management/restriction/regulation zones and reporting units (3.11)
	Reservation areas for activities/uses	Area management/restriction/regulation zones and reporting units (3.11)
	Exclusion areas for activities/uses	Area management/restriction/regulation zones and reporting units (3.11)
	Other area-based management designations	Area management/restriction/regulation zones and reporting units (3.11)
	Spatial synergies and conflicts	Area management/restriction/regulation zones and reporting units (3.11)
	Long term spatial vision	
<b>SOCIO-ECONOMIC DATA</b>		
Human population	Population estimates for localities	Population distribution – demography (3.10)
	Density of usual residents	Population distribution – demography (3.10)
Economic indicators	Economic areas	Statistical units (3.1)
	NUTs regions	Statistical units (3.1)
Social indicators	Well-being index	Statistical units (3.1)