

D25 (D2.22) Report of Technical Workshops IV workshop



ACKNOWLEDGEMENT

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MSP-MED | 4th Technical Workshop 9th of July 2021

Introduction

From data to knowledge. Supporting adaptive management in MSP

Data availability and data sharing are key enabling factors with very practical outcomes that influence the whole planning process: from the initial phases to the monitoring and reviewing of the plans. Since the 2016-2017 MSP Data study undertaken on behalf of DG MARE, national plans in the EU have come a long way, the problem of retrieving, implement and share data



has become very relevant during the plan advancements of 2021, to meet the European deadline, and more so because of the need for future plan monitoring and reviewing.

Many events have already tackled the topic in a general way; this workshop aims, therefore, at a more concrete approach, by supporting WP 3 Data Use and Sharing and by helping in the identification of current data weaknesses and lacks of information, in producing guidelines and paving the way to a coordinated use of data among the partners and, in a future perspective, in the Mediterranean basin.

Why is it important to tackle this topic?

It is a requirement of the 'MSP Directive' to take "best available data" into account when preparing maritime spatial plans. In fact, the EU Directive 2014/89/EU makes several references to this use of data:

- Art. 6, as part of minimum requirements for Member States that must "organise the use of the best available data in accordance with Article 10"
- Art. 10, "Data use and sharing" is dedicated to the type of data to be included (section 2) and specify a number of tools to be used to organize the use and sharing of data, including the tools available under INSPIRE Directive (sections 1 and 3).

The INSPIRE Directive (2007/2/EC) was conceived for the establishment of a common Infrastructure for Spatial Information in the EU and has also several references to the sharing of data:

- Art. 17, states that "each Member State shall adopt measures for the sharing of spatial data sets [...] Those measures shall enable those public authorities to gain access to spatial data sets and services, and to exchange and use those for the purposes of public tasks that may have an impact on the environment."
- Art.18, dealing with national coordination: "Member States shall ensure that appropriate structures and mechanisms are designated for coordinating, across the different levels of government, the contributions of all those with an interest in their infrastructures for spatial information."

Another recent European document, The Communication from the commission to the European Parliament, the Council, the European economic and social committee and the committee of the regions on a new approach for a sustainable blue economy in the EU transforming the EU's Blue Economy for a Sustainable Future (COM(2021) 240), presented a short overview of European data collection and sharing enablers (EMODnet, Copernicus, EUMOFA, Blueindicators) while drafting a roadmap in the field (the 2022 Ocean Observation,





the 2021 Blue Economic Observatory, expansion of Copernicus marine services, creation of methodology for integration of natural capital in economic decision, investment in modelling for monitoring) and stating once more that:

"Reliable, high-quality and harmonised ocean data are the prerequisite for a sustainable transformation of the blue economy. Better knowledge of the ocean and its ecosystems, together with free access to data, will enable industry, public authorities and civil society to make informed decisions." (p.12)

"Socio-economic data are important inputs for policy makers and for businesses, who have to make snap decisions in a rapidly evolving environment, especially in times of crisis." (p.11)

Furthermore, an efficient way of retrieving, sharing and presenting data is not only an institutional requirement: in MSP, these are key activities that directly influence the quality of the planning actions and processes, determining the effects of the plans.

Data availability and sharing, in an adaptive management perspective, can lead to data use benefiting the entire planning process, as well as enhancing transboundary planning coordination.

What are the objectives of this fourth MSP-MED technical workshop?

This workshop will build on European and international experiences (SIMWESTMED, SUPREME, BalticSea Basemap) and will be an opportunity to share among the partners the national approaches to data identification and classification.

This is also the occasion to present and discuss with project partners and planning authorities the work carried out by the internal WP3 Data Working Group: in June, July and September 2020 three meetings took place to set a common road to the accomplishment of WP3.1. A survey was issued in the following months to assess data use approaches across national processes.

The main goal of this workshop is to exchange information on the different approaches undertaken for increasing availability and sharing of data used and generated within the national maritime planning processes of Mediterranean countries. This would help to harmonize data uses towards an adaptive management of MSP that cannot be achieved without the usage of updated data. Furthermore, data harmonization has proven to be





greatly useful in the management of other basins and is therefore a desirable outcome for the Mediterranean Sea.

What should be addressed during this fourth technical workshop?

Giving the multiple aspects of data use that could be addressed, the event will be subdivided as follow: (1) greetings, (2) a round-table aimed at sharing best practices issued from past projects and national plans; (3) three sessions, aimed at sharing and discussing more in detail the national approaches to data uses, divided in three main topics: a) Acquisition of relevant data for MSP-Data Input, b) Use of data in MSP-Data Output, c) Beyond data-Towards an adaptive management; (4) Conclusions.

1) Guest institutional overview

Guest institutions can give an overview of current European tools and approaches (EMODnet, TEG on MSP data, the INSPIRE Directive and the relative achieved general compliance) and present processes where data has already been employed in the full planning process, hence happening in countries where plans have already entered the monitoring and reviewing phase. The main experiences would be the Baltic one (HELCOM) which resulted in the Basemap tool, and the Scottish, national one.

The HELCOM Basemap tool (https://basemaps.helcom.fi/) is an interesting example of interactive tool presenting both input and output data in an entire basin, involving transboundary cooperation. This might also be of inspiration for an international Mediterranean platform.

Scotland has fully implemented a national maritime plan and reviewed it in 2018. The Scottish online tool (https://marinescotland.atkinsgeospatial.com/nmpi//) is therefore a rather complete example of a technical tool that can support planners and stakeholders, having both input and output data layers. The sharing of the Scottish experience can represent a best practice for countries at earlier stages of plan development.

Questions for guest institutions:

EMODnet:



- -Overview and brief description of all the services provided by EMODnet, supporting MSP processes.
- -How can EMODnet support adaptive management and continuous monitoring of maritime plans?
- How does EMODnet work for the harmonization of data in a uniform way between different bodies and national approaches?
- How is EMODnet's work reflected in the planning and management of the marine and coastal areas? (How is the data being transferred into knowledge?)

HELCOM:

- -How were data input and output dealt with, in planning the Baltic (taking into account national but especially transnational levels, e.g. sharing data among EU and Non-EU countries) and resulting in the Basemap tool?
- -How was data shared with and presented to stakeholders and the public, with which results/feedback?
- -How do data and Basemap enable monitoring and adaptive management in the Baltic?

Scottish National Authority:

- -How data was collected, gathered and processed to inform plan making (decision, consultation...): environmental data, socio-economic data, administrative data (which are not the easiest to collect actually).
- -How was data shared with and presented to stakeholders and the public? What were/are the feedbacks
- -How were data input and output dealt with in creating the online tool?
- -Howdoes this national approach enable monitoring and adaptive management? How was data collected from other institutions? (i.e., data flows) which were the main challenges while doing that?

2) Three round tables on key topics

This matter can be tackled from three main sub-issues.

Each sub-topic will be introduced by the MSPMED Data Group presenting the project's efforts in that regard.

The objective of the sessions is to enable national authorities and partners to share on national approaches:





- a. Acquisition of relevant data for MSP-Data Input
- b. Use of data in MSP-Data Output (sharing, exchange, interoperability)
- c. Beyond data-Towards an adaptive management: Translating data into information and knowledge through monitoring evaluation, as well as in public awareness building

Question for national authorities/partners on national approaches:

- a. Acquisition of data for MSP-Data Input:
- Have national programmes of data collection and standards for data harmonization been established specifically to support MSP?
- Where does the data come from in each MSP national plan?
- Are sources of data pre-existing (secondary) or are they derived from direct MSP-based research?
- What are the prospects for a transboundary dimension?
- How to deal with data coming from economic stakeholders (produced by professional organisations)?
- Are programmes collecting data from the public or involving the public, in place (e.g., citizen science)?
 - b. Use of data in MSP-Output Data (sharing, exchange, interoperability)
- What is the stage of national initiatives and tools for sharing and using the data (e.g. national portals)? What is the final objective of the tool? What is the degree of sharing (i.e., visualization, download, processing)?
- How did they take into consideration international standards and European directives? Will the data portal be translated into other languages?
- How can data be translated or presented in a way that can be useful to stakeholders and the public? Is the information addressed in order to be easy to understand? Will feedback be collected to foster a bottom-up approach?





- c. Beyond data-Towards an adaptive management: Translating data into information and knowledge through monitoring and public awareness
- Is there a specific strategy to inform the public, beyond spatial data and technical reports?
- How will data be implemented into monitoring and review of plans at national level?
- How will the plans' data be presented to the public? Will feedback be collected to foster a bottom-up approach?



Programme

	Programme		
09:30	Introduction and greetings (5 min each):		
	MSPMED: Pierpaolo Campostrini (CORILA)		
	DG MARE: Céline Frank		
	MSP Platform and TEG on MSP data: Andrej Abramic, Clement Dupont		
09:50	Presentations by guest institutions (15 min each) - EMODnet (Jose Santiago) - HELCOM (Joni Kaitaranta)		
	- A national example: Scotland (Drew Milne & Bruce Buchanan)		
10:35	Virtual Coffee Break		
11:00	Introduction by the MSPMED Data Working Group (Alessandro Sarretta-CNR) 15min		
	3 Sessions on separate sub-topics (Plenary, average 45 min each):		
	- Acquisition of data for MSP-Data Input		
	5min (max) presentation of each national approach (30min total)		
	Discussion (15 min) Proposed facilitator: Alessandro Saretta (CNR)		
	Proposed rapporteurs: Federico Fabbri, Folco Soffietti (IUAV)		
	- Use of data in MSP-Data Output (sharing, exchange, interoperability) 6 min (max) presentation of each national approach (36 min total) Discussion (15 min)		
	Proposed facilitator: Cristina Cervera (IEO)		
	Proposed rapporteurs: Federico Fabbri, Camille Assali (IUAV-OFB)		
	- Beyond data-Towards an adaptive management: Translating data into information and knowledge through monitoring and public awareness 5 min (max) presentation of each national approach (30min total)		
	Discussion (15 min) Proposed facilitator: Armelle Sommier (Shom)		
	Proposed racilitator. Armelle Sommler (Shorn) Proposed rapporteurs: Camille Assali, Federico Fabbri (OFB-IUAV)		



13:00	Debriefing and conclusions

Order of presentation per country in part 2

Italy, Spain, France, Greece, Malta and Slovenia

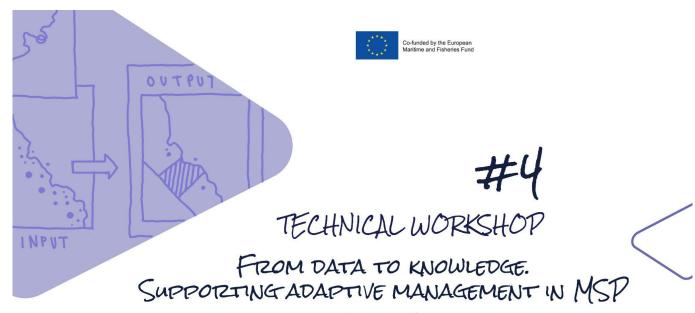
Participants

MSP-MED Partners		
CORILA -IUAV-CNR	Pierpaolo Campostrini, Daniele Brigolin, Federico Fabbri, Fabio	
	Carella, Folco Soffietti, Hadi El Hage, Alessandro Sarretta,	
	Amedeo Fadini	
PA	Michelle Borg, Alexia Vella, Elaine Camilleri, Elaine Sciberras	
Shom	Armelle Sommier, Dominique Carval, Clara Zimmer, Alan	
	Quentric, François Virevialle	
OFB	Neil Alloncle, Camille Assali	
RRC Koper	Slavko Mezek	
UTH	Evangelos Asprogerakas, Panos Manetos, Harry Coccossis	
YPEN	Efi Stefani	
IEO	Cristina Cervera Núñez	
MSP Competent Authorities	8	
Ministry of Transports and	TBD	
Infrastructures (Italy)		
Ministry for the Sea (France)	Maïté Verdol	
MSP Technical Committee	Ivan Fava	
(Malta)		
Ministry of Environment and	Foteini Stefani, Elena Lalou, Evgenia Lagiou	
Energy (Greece)		
Ministry for the Ecological	Aurora Mesa Fraile	
Transition and the		
Demographic Challenge		
(MITERD) – DG for the		
coasts and the sea (Spain)		
Other Institutions		
European Commission - DG	Céline Frank	
MARE		



MSP Platform	Andrej Abramic
TEG on MSP data	Clement Dupont
Emodnet	Jose Santiago
HELCOM	Joni Kaitaranta
Scottish Government,	Drew Milne, Bruce Buchanan
Marine Planning Unit	
Ifremer	Antoine Huguet
CEDEX	Carla Murciano Virto

The Workshop



GRAPHIC MINUTES BY FOLCO SOFFIETTI

ONLINE MEETING 09:30 - 13:30 (CET) 09-07-1011



























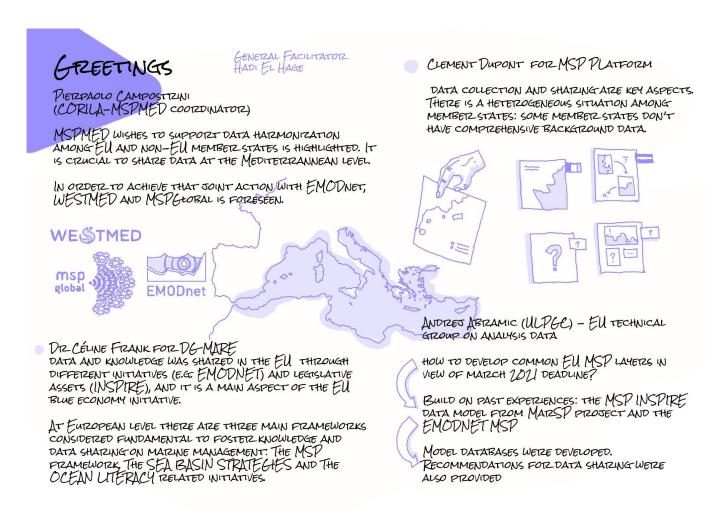








Introduction and Greetings



The meeting was attended by an average of 40 people, and started with **Hadi El Hage (IUAV)** introducing the meeting schedule.

Official greetings were started with **Dr. Pierpaolo Campostrini (CORILA)**, Project Coordinator of MSPMED, where he reminded the importance of data as a Key Enabling Factor and expressed the intention of MSP-MED to help the coordination among Mediterranean countries. He also emphasized the support of data harmonization in the basin, considering both EU and non-EU Member States.

Initiatives such as EMODnet, WESTMED and MSP Global play a key role to enhance knowledge and data harmonization and MSPMED is willing to join and support them since data sharing at Mediterranean level is crucial.



Celine Frank (DG MARE) highlighted the importance of data and knowledge sharing in the EU framework through different initiatives (e.g. EMODNET) and legislative assets (INSPIRE) since data sharing is also crucial to support sustainable blue economy and, as such, it is a main aspect of the EU blue economy initiative.

She recalled that an EU Blue forum is being put in place to discuss with different sectors on information sharing in the framework of MSP and that at European level there are three main frameworks that are considered fundamental to foster knowledge and data sharing on marine management: The MSP framework. The SEA BASIN STRATEGIES and The OCEAN LITERACY related initiatives.

Clement Dupont (MSP Platform) recalled the work and role of the TEG and its effort in supporting the European Commission and the member states to implement MSP since data collection and sharing are key aspects. He also acknowledged that there is a heterogeneous situation among member states: some member states still have many challenges to have comprehensive background data.

Andrej Abramic (ULPGC) from the EU Technical Expert Group on MSP Data explained that the group kicked off in April 2020, from previous initiatives a proposal was created for making MSP plan data harmonized available across Europe. Especially it focused on the input data needs; and how to develop common EU MSP layers in view of the March 2021 deadline (MSP Directive).

Andrej explained the main past initiatives to support this work were the Basemaps information system developed by HELCOM-VASAB, and the MSP INSPIRE data model from MarSP project. EMODNET MSP Model databases were developed bridging two operative data models by EMODnet HA team, with support of Technical Expert Group on MSP data. This was to develop and discuss a proposal for making the MSP Plan data harmonized and available across Europe. Recommendations for data sharing were also provided.

Also, he mentioned that TEG should discuss and deal with still pending topics related to the MSP data management. 5 main topics were identified for MSP data management: a) effective data management of the data in the framework of the Marine Strategy Framework Directive (MSFD) and the MSP Directive b) metadata standard for MSP plans (EU data catalogues); c) Network services for MSP; d) MSP data framework for monitoring of the plans efficiency; e) assessment of the socio-economic impacts.





Presentations by Guest Institutions

JOSE SANTIAGO-EMODNET

SEVEN POTZTALS ATZE AVAILABLE ON THE PLATFOTZM, FOTZ INSTANCE ONE IS DEDICATED TO HUMAN ACTIVITIES WITHIN THE MSP DATASETS WHETZE MOTZE THAN 60 LAYETZS OF DIPPETZENT TYPES OF HUMAN ACTIVITIES CAN BE FOUND.

MSP DATA MODEL TO HAIZMONIZE DATASETS, THETZE AIZE DIPETZENT TYPES OF FOIZMS: SPATIAL ELEMENT (LIMITS OF THE PLANS AND TWO COMPLEMENTAIZY TOOLS: IZEGULATION AND DOCUMENTATION, GIVING MOTZE DETAILS TO THE PLANS) AN EXAMPLE AIZE THE MAPS OF MAIZITIME TIZANSPOIZT IN BELGUM.



EMODNET THEMES WEIZE HATZMONIZED WITH MSP DIZECTIVE CLASSIFICATION. CUTZTZENT ACTIVITIES AT SEA CAN BE TZEPTZESENTED WITH MSPLANS (E.G. CULTUTZAL HETZITAGE)

HUMAN ACTIVITIES



ADVANTAGES OF EMODNET.

- · SIMPLICITY: USABILITY WITHOUT GIVING UP RELEVANT INFORMATION.
- HATZMONIZATION: A NOMENCLATURZE COMPATIBLE WITH THE MSP AND INSPIRE DIRECTIVES.
- · INTEGRZITY: THE OTZIGINAL MSP OF EACH MEMBERZ STATE AND THE HATZMONIZED MSP AZE VISUALIZED AT THE PLATFOZM.
- · COMPATIBILITY: CAPABILITY TO INTERLINK WITH OTHER MSP MODELS
- · VETZSATILITY: TO VISUALIZE AND COMPARZE ACTZOSS COUNTIZIES, USES AND ACTIVITIES..

Jose Santiago (CETMAR) presented the European Marine Observation and Data Network **(EMODnet)**. Among the seven portals available on the platform, the presenter gave an insight on the one dedicated to human activities within the MSP datasets where more than 60 layers of different types of human activities can be found.

A MSP data model is used to harmonize datasets. There are three types of information: MSP Spatial Planning (main spatial element: limits of the plans) and two complementary tools, the MSP Supplementary regulation and the MSP Official documentation (giving more details to the plans).

MSP Spatial Planning: the main spatial element. It establishes the policies, priorities, programs and land allocations that implement the strategic direction of a given geographic area and influences the distribution of people and activities in spaces of various scales. It is a spatial feature.



MSP Supplementary Regulation: documentation, defined mainly in regulations, reporting on existing limitations in the use of land in a given area. Consequently, it is a non-mandatory spatial feature.

MSP Official Documentation: all the documentation, included in the regulation or other official sources, that defines the 3 previous feature types. This is a non-spatial feature, and therefore will not be represented graphically in the EMODnet geoportal.

Examples of maps were provided by the presenter, for instance maps of maritime transport in Belgium. The presenter highlighted the harmonization effort that has been conducted, e.g. through classification of marine uses, where EMODNet themes were harmonized with MSP directive classification. Furthermore, in EMODnet, current activities at sea can be represented with MSPlans, as illustrated by several examples (cultural heritage in Finland - combination of planning activities and current activities; natural heritage- no spatial conflict between nature protected areas and activities in the Channel; etc.)

Advantages of EMODnet consists in simplicity, harmonization, integrity (original and harmonized MSP are visualized in the platform), compatibility (capability to interlink with other MSP models) and versatility (e.g. to visualize and compare activities and uses across countries).

Plans for Finland and Depmark (almost uploaded) have already been received. The presenter conclude

Plans for Finland and Denmark (almost uploaded) have already been received. The presenter concluded by encouraging the sharing of plans and their inclusion in the EMODNet portal.

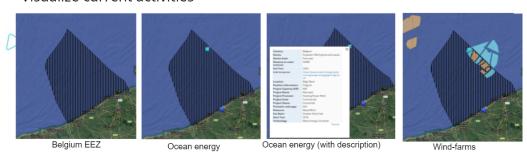
Below are some screenshots taken from the current EMODnet Portal, demonstrating how the data is accessible and visualized on the portal.

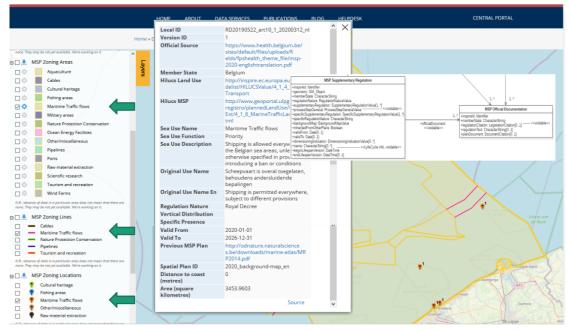






· Visualize current activities







The second presentation, by **Joni Kaitaranta (HELCOM)**, focused on BASEMAPS - "A map and data portal for relevant MSP data in the Baltic Sea Region".

JONI KAITARANTA-HELCOM

BASEMAPS- A MAP AND DATA PORTAL FOR RELEVANT MSP DATA

HELCOM-VASAB MSP WOTZKING GTZOUP (2010) - MAKE SUTZE THAT MSP PRODUCTS WILL BE COHETZENT IN THE BALTIC SEA

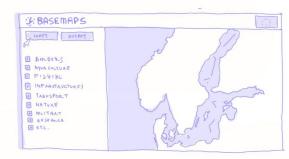
BALTICLINES PTOJECT: MSP DATA SHATZING PLATFORM - MAKE USE OF EXISTING DATA SETZVICES

HELPED GATHETZ ALL THE TZELEVANT MSP TZELATED DATA IN THE BALTIC AND PTZESENT THEM (INPUT DATA ONLY, INITIALLY, OUTPUT DATA ADDED LATETZ).

SOME LESSONS LEATENT: FOTZALL THE TOPICS LISTS IN MSP DITZECTIVE, THETZE IS NO SETZVICES AVAILABLE FOTZALL THEMES AND ALL COUNTIZIES -> SUPPLEMENT WITH STATIC DATASETS THAT HELCOM CAN OFFETZ

CATEGOTZIZATION AND CLASSIFICATION OF DATA HAS SEMANTIC PIZOBLEMATICS -> DATA IS PUBLISHED AS IT IS WITH NO COMMON AGTZEEMENT ON DATA HATZMONIZATION (ATTZIBUTES ETC.)

WHAT IS MSP TZELEVANT?
UPDATE DATA AND DATA SOUTZCES IS A
CONSTANT EFFOTZT (WHILE THE DATA IS NOT
STOTZED DITZECTLY BUT LINKED TO SOUTZCES)





LT SUMMATZIZED THE INPUT DATA THAT IS AVAILABLE, BUT DOES NOT CONTAINS ALL DATA USED IN PLANNING (ONLY PATZT OF THEM, E.G. ECOLOGICAL DATA) LT COULD ENHANCE/FACILITATE TIZANSBOUNDATZY TZEPTZESENTATION AND COHETZENCE

FOTZ-USETZS, THE TOOL TZEPTZESENTS A FITZST WAY TO CONSIDETZ-EXISTING DATA, BEFOTZE GETTING MOTZE IN DETAILS WITH A DITZECT ACCESS TO THE DATA PTZOVIDETZ

THE VALUE IS THAT ALL PLANS ATZE NOW GATHETZED AND CAN BE TZEPTZESENTED IN A SINGLE MAP.

Since 2010, the HELCOM-VASAB MSP Working Group was established to ensure cooperation among the Baltic Sea Region countries for a coherent regional MSP.

Since 2015, the MSP Data Expert Sub-group, under HELCOM-VASAB MSP WG, supports data, information and evidence exchange (e.g. harmonization) for MSP processes with regard to cross-border/transboundary planning issues.

In the BalticLines project (2016-2019) existing national MSP related data services (map services, feature services, downloadable resources) were gathered and shared in BASEMAPS map and data portal.

BASEMAPS stores references to the data (but not data copies), and allows the overlay of different datasets, this way it is ensured that the data in BASEMAPS is as up-to-date as on the national data



providers serves. However, there are no services available for all themes listed in the MSP directive and for all countries. HELCOM thus offers supplementary data services based on the static HELCOM data for some of those gaps.

From experience, categorization and classification of data faces semantic difficulties. Consequently, data is published as it is, with no common agreement on data harmonization (data model, semantics, attributes, etc.). Nonetheless, BASEMAPS seeks to have harmonized INSPIRE data, but does not prohibit other types of data.

Regarding the consideration of MSP relevant information, and because the topic is very broad, selecting what to accept or to leave out remains a real challenge. Updating data and data sources is a constant effort (while the data is not stored directly but linked to sources).

The presenter showed an example of output data from PanBalticScope (priority areas for offshore wind farms). Within the output data section, one can overlay all the plans and sea uses (classified into categories).

The different types of MSP implementation (even at the regional scale) represent a challenge of harmonization, often with different restrictions of uses among MS, etc. In relation to this, multi-use representation is difficult to obtain. A common data model would allow harmonization to a certain extent.

The presenter concluded by answering directly the three questions proposed above, thus adding complementary information:

Input data is summarizing what is available, it does not contain all input data used in actual planning, but part of it. Many transnational datasets were used (e.g.: Shipping traffic (AIS density), ecosystem components, fisheries data) and could facilitate transboundary representation and coherence.

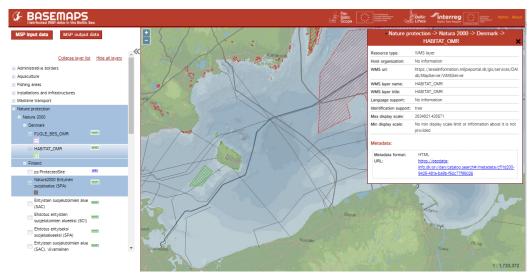


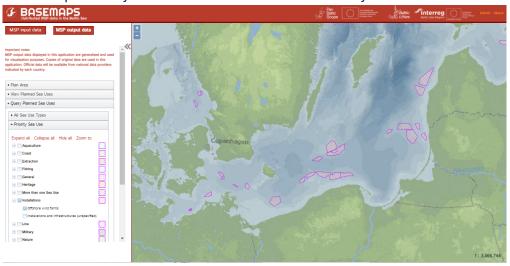
Image of the base maps of the BalticLines project 2016-2019 - Data categories defined by





HELCOM-VASAB MSP Data ESG

- Value of Basemaps is that it catalogues available information on input data and MSP plans. It
 was shared by promoting it in stakeholder events, workshops, organizing training events etc.
 For users, the tool represents a first way to consider existing data, before getting more in detail
 with a direct access to the data provider.
- All plans are gathered and can be represented on one single map, thus giving overview of coherence and possibility to look into national data availability.



Output data: PanBalticScope project 2018-2019: HELCOM-VASAB Guidelines on transboundary MSP output data structure in the Baltic Sea.

Finally, **Drew Milne and Bruce Buchanan (Marine Scotland)** presented the national example of Scotland. Marine Scotland is part of the Scotlish Government and is the planning authority for Scotlish waters (management of marine environment - policy e.g. fisheries, licensing activities (except oil and gas), science e.g. research to inform policy). The discussion focused on the two main pieces of legislation, i.e. the Marine and Coastal Access Act (2009) and the Marine Act (2010).



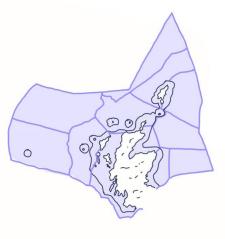
DIZEW MILNE AND BIZUCE BUCHANAN - MATZINE SCOTLAND

THIZEE STEPS CONDUCTED, THE FIZST ONE BEING THE ASSESSMENT WOIZK BEFOIZE DIZAWING THE MAIZITIME PLAN, AIMED AT DESCIZIBING THE STATE OF SCOTLAND'S SEAS ("SCOTLAND'S SEAS – TOWAIZDS UNDETZSTANDING THEIZ STATE"). THE ASSESSMENT IZEPOIZT WAS THEN EDITED IN A PUBLISHED SCOTLAND'S MAIZINE ATLAS, WHICH BECAME THE BASIS OF SCOTLAND'S NATIONAL MAIZINE PLAN.









THE NATIONAL MAIZUNE PLAN INTERACTIVE (NMPI) IS AN INTERACTIVE MAPPING TOOL TO VISUALISE THE AVAILABLE DATA (POSTGES SETZVETZ) FOTZ PLANNING FOLLOWS DITZECTLY FIZOM THE MATZINE ATLAS, GATHETZING MOTZE THAN 1000 DATASETS.

USERS CAN ALSO FIND A METADATA CATALOGUE.

SCOTLAND'S SEAS, DATA AND ASSESSMENT GROUP MANAGES THE COLLECTION AND COOTEDINATION OF DATA ACTEOSS NUMETROUS OTEGANISATIONS. ALL DATA USED TO BE MANAGED INDIVIDUALLY, AS SHAPEFILES BUT NOW TRELIES MOTRE ON SETRICES SUCH AS WMS AND WFS.

DATA IS PROCESSED INTO A CONTINUOUS REVIEW AND UPDATE.

MATZINE SCOTLAND'S OPEN DATA NETWOTZK, WHICH IS AN INTEGRATED SYSTEM OF THIZEE TOOLS LINKED TOGETHETZ (1) AN ACCESS TO NON SPATIAL DATA, (2) A LINK TO MAPS, (3) A LINK TO TZAW DATA.

THE NATIONAL PLAN IS TZEVIEWED EVETZY YEATZS



SCOTLAND'S MATZINE ASSESSMENT 2010 POTZTAL: OPENDATA NETWOTZK; ASSESSMENTS FOTZ-EACH OF THE CATEGOTZIES (MATZINE USES) + SUMMATZY OF EACH OF THE SECTIONS

Drew Milne mentioned the three steps conducted: the first one being the assessment work, aimed at describing the state of Scotland's seas ("Scotland's Seas - Towards understanding their State"). The assessment report was then edited and published Scotland's Marine Atlas in 2011, the information in the Atlas then became the basis of the National Marine Plan Interactive mapping tool.

National Marine Plan Interactive(NMPi), which is an interactive tool to visualize the available data (PostGIS server) for planning, follows directly from the Marine Atlas, gathering more than 1000 datasets. Among the provided services, users can also find a metadata catalogue.

Scotland's Seas, Data and Assessment Group manages the collection and coordination of data across numerous organisations. all data used to be managed individually, as shapefiles but now relies more on services such as WMS and WFS. Data is processed into a continuous review and update, while effort is made to allow interactions between content and functionalities to a wide audience.



Bruce Buchanan focused on the Marine Scotland's Open Data Network, which is an integrated system four components (1) an access to non spatial data, (2) a link to maps (NMPi) and, (3) a link to raw data and (4) Scotland's Marine Assessment 2020 (SMA2020) portal.

The example of offshore wind farm planning is mentioned, highlighting that for MSP, having all available spatialized information in one place/tool/map represents an obvious benefit.

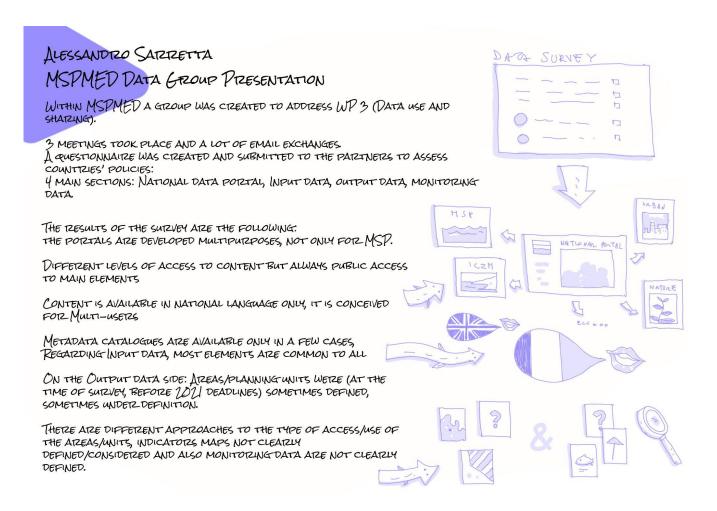
Scotland's National Marine Plan is reviewed every 3 years and the latest review was undertaken earlier in 2021. This review will allow Scottish Minister to decide, later this year if a new National Marine Plan is required. The preparation of an assessment (SMA2020) of the Scottish marine area was required by legislation to inform that review. The Scotland's Marine Assessment 2020, published in December 2020, summarizes the pressures the marine environment faces and informs policies and planning decisions, such as priority areas. In relation to this process, the SMA2020 portal offers an open data network, providing assessments under a number of categories (Helpful summaries of the assessments are also provided).



MSPMED Data Working Group presentation







The presentation given by **Alessandro Sarretta (CNR)** reported that within MSPMED a group was created to address Work Package 3 - WP3: Data use and Sharing. The goal of this WP is to share and use the best available data in MSP, where each of the MSPMED partners had a representative in the group. 3 meetings took place and a lot of email exchanges occurred between the representatives.

A questionnaire was created and submitted to the partners to assess countries' policies: it focused on 4 main sections: National Data Portal, Input Data, Output Data, Monitoring Data.

The results of the survey are the following: the portals developed are for multipurpose uses, not only for MSP. There are different levels of access to the content but there is always public access to main elements. The content is available in the national language only, and it is conceived for Multi-users. Metadata catalogues are available only in a few cases, they usually don't have advanced functionalities (analysis, integration, ...).



Regarding Input data, most elements are common to all member states, but there are no clear publication/accessibility policies.

On the Output data side: At the time of survey (before 2021 deadlines), areas and planning units were in some cases defined and in others still under definition. There are different approaches to the type of access/use of the areas/units, indicators maps not clearly defined/considered and also monitoring data are not clearly defined.

Next steps that will be undertaken by the working group: update implementation, content and accessibility. Understand which input data were used in the plans? For the countries that issued plans, it will be interesting to access them and see if harmonization will be carried out.

Acquisition of data for MSP-Data Input



NATIONAL PRESENTATION ON INPUT DATA

/TALY

LIESSANDIZO SATZIZETTA

ALESSANDIZO SATZIZETTA (CNR-ISMAR)

15 PIZIOTZITY MAPS WETZE IDENTIFIED AND GUIDED COLLECTION OF

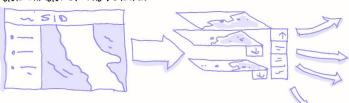
DATA. THE COLLABOTZATION BETWEEN NATIONAL AND TZEGTONAL

AUTHOTZITIES WAS A COTZE ELEMENT FOTZ PLAN CTZEATION. DATA WAS

UPLOADED ON THE NATIONAL DATA POTZTAL "SID-POTZTALE DEL

MATZE": HTTPS://WWW.SID.MIT.GOV.IT. ALTZEADY EXISTING POTZTAL.

THE IZOAD AHEAD WILL SEE THE IMPIZOVEMENT OF METADATA, THE IZEALIGNMENT OF DATA IN THE POIZTAL, ADOPTION OF WIDEIZ-OPEN LICENCES, THE WIDEIZ-SHAIZING-WITH OTHEIZ-STAKEHOLDEIZS AND THE ENIZICHMENT OF THE POIZTAL.



SPAIN

CIZISTINA CETZVETZA NUÑEZ (1FO)

THETZE IS NOT YET A DATA HAIZMONIZATION STANDARD APPROACH ONGOING

DATA MAIN SOUTCES WETZE THE IND CYCLE OF MATZINE STTZATEGY (PTZESSUTZES AND IMPACTS, AND OF THE ECONOMIC AND SOCIAL ANALYSIS). DATA COMES FTZOM EACH MINISTETZIAL DEPATZTMENT IN COOTZDINATION WITH THE COASTAL JUTONOMOUS COMMUNITIES.

STAKEHOLDETZS DATA IS NOT YET ADDIZESSED, HOWEVETZA STIZATEGY IS UNDETZ DESIGAL FRANCE ANTOINE HUGUET -(IFREMER) + NEIL ALLONCLE- (OFB)

FIZANCE HAS MANY DATA CALLS: SCIENTIFIC TEAMS, BUT ALSO INTETENATIONAL OTEGANIZATIONS

A DEDICATED TEAM LEAD BY LPREMER TO GATHETE.
THE DATA (HISTOTZICAL DATA) WAS CIZEATED.

A SINGLE SPATIAL INFIZASTIZUCTUIZE TO SHAIZE THE DATA WHETZE MOST OF THE DATA AIZE FIZEELY

AVAILABLE HAS BEEN IMPLEMENTED.

DATASET INCLUDE GES, ESA, MSDF TATZGETS. MOTZE THAN 2D INTETZVIEWS TO COLLECT DATASETS. ALL DATASETS WITH METADATA ATZE CENTTZALTZED.

THETZE IS AN APPTZOACH TOWATZDS DATA HATZMONIZATION BUT THIS TAKES TIME. (SOME OF THE DATA WILL NOT BE USED, WHETZEAS OTHETZS WON'T BE AVAILABLE OTZ-PTZODUCED OTZ-FINALIZED)



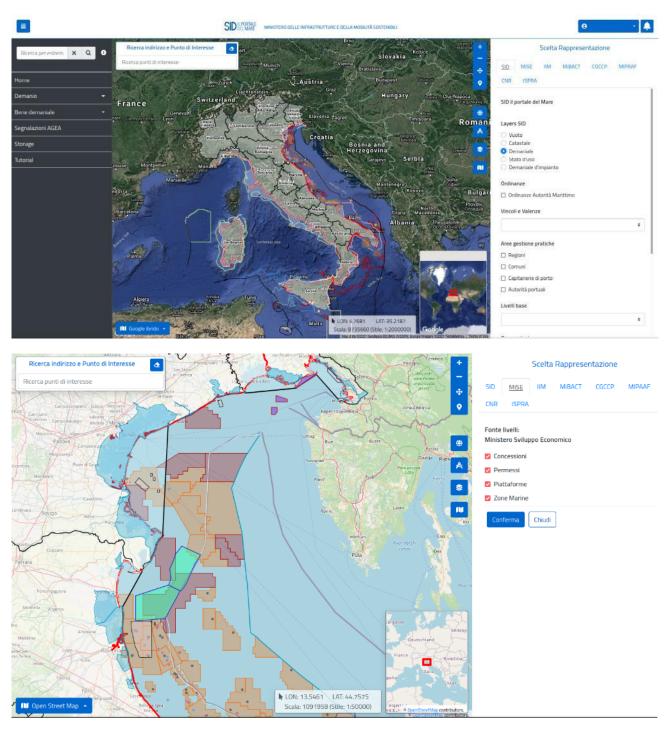


Italy

Alessando Sarretta (CNR-ISMAR) showed that 15 priority maps were identified and guided collection of data. The collaboration between national and regional authorities was a core element for plan creation. Data was uploaded on the National Data Portal "SID-portale del mare":

https://www.sid.mit.gov.it. An already existing portal, developed and managed by the National Operational Center. During the maritime planning process, the access to MSP data was restricted to institutions directly involved. Maps later became annexes to the plan. The road ahead will see the improvement of metadata, the realignment of data in the portal, adoption of wider open licences, the wider sharing with other stakeholders, and the enrichment of the portal.





Spain

Cristina Cervera Nuñez (IEO) points out that there is not yet a data harmonization standard approach ongoing in Spain. However, besides participating in the MSP-MED data group, Spain participates also



in the EU Technical Expert Group (TEG) on "Data for MSP" through representatives from MITERD, IEO and CEDEX and will follow the recommendations and guidelines that from this group will emanate

The main data sources were the 2nd cycle of marine strategies (specifically the updating of the initial assessment of the state of the marine environment, its pressures and impacts, and of the economic and social analysis). Data comes from each Ministerial Department in coordination with the coastal Autonomous Communities.

The stakeholders data is not yet addressed, however a strategy for stakeholder engagement is under design, in which one of the points would be how to implement stakeholder data. Finally, the presenter mentioned that part of the marine strategies (and therefore indirectly, the MSP process) employs citizen science.

France

Antoine Huguet (IFREMER) and **Neil Alloncle (OFB)** showed that France not only has many data calls: scientific teams, but also international organizations.

A dedicated team led by IFREMER was assigned to gather the data (historical data) and a single spatial infrastructure to share the data, where most of the data is freely available and has been implemented.

Dataset includes GES, ESA, MSDF targets. More than 20 interviews were required to collect datasets (410 were asked, with about 180 indicators to be evaluated) and all datasets with metadata are centralized.

There are 50 data producers, and even if an approach towards data harmonization is in place, this is time consuming: some of the data will not be used, whereas others won't be available or produced or finalized because they are too expensive. Issues are related to availability: private data is not easily accessible but also open data may need negotiation or not be sufficiently accurate.

Concerning the transboundary level data is being collected but it faces challenges (Covid, Brexit, etc.) and datasets produced by stakeholder organizations are being taken into account but officiality is not usually easy to reach.

Greece

Eli Stefani (YPEN) described how coordination of data collection is in charge of YPEN, and that a dataset will be available on a GEOportal (already included on government cloud for institutions).





9 main categories were selected: Administrative boundaries, Social / Economic / demographic data, Geomorphological characteristics, Physical / Chemical / Biological characteristics, Energy / Mineral resources, Activities / Uses, Infrastructure / Facilities, Dangers / Protection, Spatial Planning.

138 parameters were identified and classified, topics for transboundary issues were also identified: Physical/Chemical/Biological information, Nature and species protection and conservation, Underwater cultural heritage, oil and gas, Renewable energies, Maritime transport routes and traffic flows, Fishing, Aquaculture, Tourism and recreation.

In Greece, data comes from secondary data, provided from ministerial bodies and regional authorities. The aim is presenting data in a clear and accessible way.

Malta

Michelle Borg (Planning Authority) shared that the Maltese plan is integrated with terrestrial plan (SPED 2015), coastal strategy, MSFD, WDF and national policies need to be taken into account. The information was collected for the national sectoral plans to support the msp plan.

A new spatial strategy is being designed: informed by the previous work done in MSP (first cycle of implementation) and also in previous EU projects (e.g. Simwestmed) and through the eu technical committee that supports the sharing of data on socio-economic aspects.

Data comes from secondary sources, provided by authorities. Government has asked for a review of the plan. LSI analysis, MSFD and WFD reporting cycles are part of the sources. Any transboundary issues will be considered. The challenge ahead is how to manage multisource data and ensure data data is valid and with metadata.

An initiative for the new plan is to assess public perception and readiness to be involved in msp plans. A telephone survey (in Maltese and English) was carried out to obtain public insight on the areas frequented for recreation, local knowledge on marine related issues, and level of awareness of the role of the marine environment in their work.

Slovenia

Tina Primožič (RRC Koper) explained that the competent authority prepared an overview of best available data: 68 data layers were identified in which the most important categories are: Boundaries (terrestrial,marine) and Activities/uses (Raw material extraction, Dumping materials, Aquaculture, Cables and pipelines, Nature and species protection and conservation).

Institutions providing data are ministerial bodies. Transboundary cooperation and data harmonization is taken into account with Italy and Croatia through several european projects.





Use of data in MSP-Data Output (sharing, exchange, interoperability)

NATIONAL PRESENTATION ON OUTPUT DATA FACILITATOR CETEVERA NUMBER

LTALY

AMEDEO FADINI (IMA) - CNR - ISMAR)
THE NATIONAL POIZTAL IS THE SID; MSP PLANS AND OTHERZ
INPORMATION EXPECTED TO BECOME AVAILABLE.
3 PLANS WHEIZE DESIGNED FOIZ EACH MAIZITIME AIZEA. AN
INCLUSIVE IZEPOIZT WAS CIZEATED INCLUDING BACKGIZOUND
INFOIZMATION ON THE DATA COLLECTED.
EACH PLAN HAS 2.NESTED SUBLEVELS:
SUBAIZEAS AND PLANNING UNITS.

CONCETENING DATA HATEMONIZATION: AN ISSUE TO BE STILL ADDIZESSED IS THE INTEGREATION WITH TETEZESSTEIAL PLANS







DATA

SID



MICHELLE BOTZE (PLANNING JUTHOTZITY) NOT SPECIFIC POTZTAL FOTZMSP.

IT EXISTS FOIZ-TEIZIZESTIZIAL AIZEAS AND THEIZE IS AN INTEIZNAL (NON-PUBLIC) POIZIAL

À MATZINE DATABASE IS IN PTZOGTZESS (MATZINE ENVIOTZNMENT). CONSIDETZING IN WHICH POTZTAL TO COLLECT AND SHATZE THE DATA FIZANCE DOMINIQUE CATZVAL (SHOM), NEIL ALLONCLE (OFB), ALAN QUENTTZIC (CEREMA)

THETZE ATZE THIZEE POTZTALS: MILIEU MATZIN AND THE PTZENCH NATIONAL POTZTAL ON MATZITIME LIMITS AND THE GEOLITOTZAL POTZTAL. VOCATION ZONES DEFINED AND MAPPED IN THE DSF FOTZ THE MEDITETZTANEAN; LOCAL PLANNING SCHEMES AND STTZATEGIC OBSECTIVES INCLUDED; A GEOSPATIAL DATASET TO BE UPDATED TO GATHETZ THE MSP PLANS MSP ZONES ATZE BEING DEFINED.

GEOLITTOIZL POIZTAL SO FAIZ IS WHEIZE THE WOTZK IN MSP IS SPATIALLY INTEGIZATED: MOST ASPECTS (I.E. ENVIOIZNMENT, HUMAN ACTIVITIES) ATZE INCLUDED; INFOTZMATION PTZOVIDED FOTZ EACH VOCATION ATZEA
3 EXISTING INSPIRE—COMPLIANT MSP MODELS WEIZE DEVELOPED











NATIONAL PRESENTATION ON OUTPUT DATA

SLOVENIA

SLAVKO MEZEK (RRC KOPETZ)

THE FIZET CYCLE OF THE SLOVENIAN MSP PTZOCESS FINISHED OFFICIALLY THE D9/07/021.

NOT A SPECIFIC MSP GEOPOTZTAL BUT THETZE IS A SPATIAL

INFOTZMATION SYSTEM THAT SUPPOTZT THE GATHETZING OF DATA FOTZMSP, OPETZATIVE SINCE 10/8.

THIS POIZTAL IS CIZUCIAL TO: INFOIZM ABOUT MSP CONCEPTS, PIZOCESS, OUTPUTS; TO SHAIZE FINAL PLANS; TO SHAIZE INPUT DATA, TO FOLLOW THE IMPLEMENTATION STAGES OF THE MSP PLAN IN IZEAL—TIME.



SPAIN

CATELA MUTECIANO (CEDEX)
INFOMME: THE SPANISH INFORMATION SYSTEM FOR MARINE
SPATIAL DATA

OBJECTIVE: FACILITATE GENETZATION AND ANALYSIS OF MATZINE DATA FOR MSP DIZECTIVE AND CONVENTIONS AND TZEPOTZTING OF THE DATA TO THE

TZEGTONAL AUTHOTZITIES DATA TZELATED TO THE MATZINE ENVITZONMENT (MSPD, MSPD, WPD), CONCETZNING MSP: MATZINE ENVITZONMENT AND HUMAN ACTIVITIES INFOS COLLECTED AND SPATIALIZED

MAIN CHALLENGE: HOW TO PTZESENT DATA IN THE MSP PLANS

NEXT STEPS: IT BEING TZEGULATZLY UPDATED (MONTHLY), NOTZMATIVE CATZTOGTZAPHY (BASED ON THE MSP PLAN), FEEDBACKS FIZOM USETZS TO IMPTZOVE THE POTZTAL AND DATA VIEWETZ.

GREECE EVANGELOS ASPROGERZAKAS (UNIVERZSITY OF THESSALY);

YPEN SDI GEOPOIZTAL (HOSTED BY THE MIN OF THE ENVIRONMENT): A NATIONAL POIZTAL CONSTANTLY COLLECTING, SHAIZING UPDATED ENVIRONMENTAL DATA FOIZ GIZEECE. SO FAIZ ONLY FOIZ TEIZIZESTIZIAL ENVIRONMENT, IT IS EXPECTED TO BE UPDATED WITH MAIZINE DATA, SINCE IT IS COMPLIANT WITH INSPIRE PIZINCIPLE.

IN PTZOGTZESS, IT WILL BE: INTETZACTIVE, USETZ PTZIENDLY, BUILT TO FACILITATE ACTIVE INTETZACTION OF STAKEHOLDETZS, UPDATED ON MSP LEGISLATION AT NATIONAL, SUB-NATIONAL LEVEL.

ENVIRON MENTAL





Italy

Amedeo Fadini (IUAV & CNR-ISMAR) discussed the national geodata portal, that goes under the acronym SID, has been created to support the MSP process in Italy; the portal is now available for the responsible authorities and organizations involved in the national MSP process and it is expected to become open to public access in the future.

An inclusive report was created including background information on the data collected and on how to operate within the portal. The information related to the planning of the Italian sea is being integrated in the system. Italy has 3 MSP plans for the maritime areas: Adriatic Sea, Ionian Sea and Central Mediterranean Sea, Tyrrhenian Sea and Western Mediterranean Sea. The output is mainly composed of a text document with annexed maps and tables. Indeed the Italian marine space is being planned between 3 large marine areas each divided at two nested sublevels: subareas and planning units, for which vocational uses are defined. The boundaries defining such subdivisions are available in the portal.



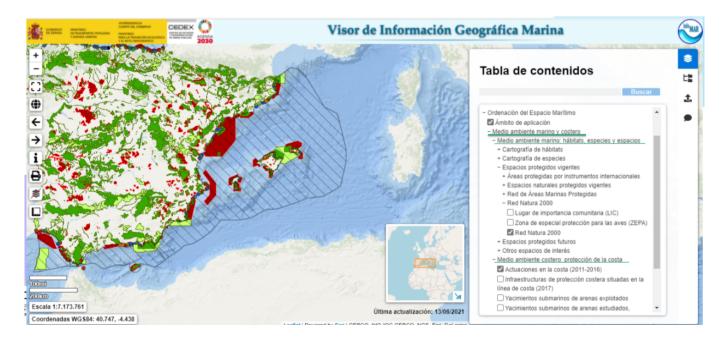
Concerning data harmonization, the integration of the marine boundaries and features in terrestrial plans is an issue to be still addressed. A next step will be the harmonization of the spatial data collected for MSP in Italy to allow their integration into the European data portal EMODNET.

Spain

Carla Murciano (CEDEX) explained that the Spanish information system for marine spatial data known as infoMAR was introduced: it has been created to facilitate the integration and analysis of marine data to support the MSP directive and as a repository of the data collected by the regional authorities.

Through the geoviewer interface it is possible to visualize online the data related to the marine environment, collected in the framework of the main European directives related to the marine environment: the MSPD, the MSFD and the WFD among the others. It provides an interactive user-friendly interface to manipulate the data online. The data portal includes several relevant spatial information that supports the MSP process concerning marine environment and human activities.

To support the use of the geoviewer a comprehensive written reference is available with all the details on the data found in the dataportal. It is being regularly updated on a monthly basis and it is expected to integrate cartographic outputs of the MSP plans. Further a service of exchange with the users has been put in place to receive feedback and to improve and adapt the system and data viewer based on it.







Visor de Información Geográfica Marina Tabla de contenidos 00 (1) nas de uso priorita **←** Zonas de uso prioritario pa → Zonas de uso prioritario para la extracción de áridos i Zonas de uso prioritario para la protección del 0 onio cultural Zonas de uso prioritario para investigación, desarroll * innovación (I+D+i) Zonas de uso prioritario para la defensa nacion Zonas de uso prioritario para la navegación Zonas de uso prioritario para la energía eólica marina onas de alto potencial biodiversidad Zonas de alto potencial para la in esarrollo e innovación (I+D+i) Zonas de alto potencial para la actividad portuaria Zonas de alto potencial para el desarrollo de la CE 200km nergía eólica marina Escala 1:5.059.405 Coordenadas WG \$84: 40.932. -5.333

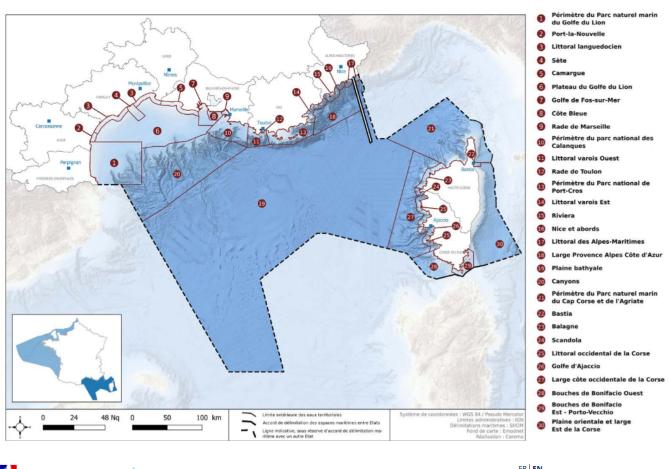
Example 6. Normative cartography: «Priority use areas» and «High potential areas» for marine uses

Dominique Carval (Shom) shared that there are three main data portals to support MSP in France. The work done to implement the MSPD in French Mediterranean was summarized in the so-called Document Strategic de Façade Méditerranéenne (DSF) where the cartographic output was included and vocational zones were mapped. DSF vocation zones correspond to homogeneous zones regarding environmental and socio-economic stakes and vocations. They are associated to the main orientations: strategic objectives, priority activities and use prescriptions, points of attention, local planning schemes to be articulated..

One main issue within the national process is the publication of the vocation zones' delimitations of reference - among other main French regulations - on the National Portal of Maritime Limits to support the enforcement of the plan.

Another is the enhancement of stakeholders' acquaintance with the DSF to visualize data and support the decision-making process. To this goal, a specific interactive portal is being developed to facilitate stakeholders' involvement and to foster their appropriation.

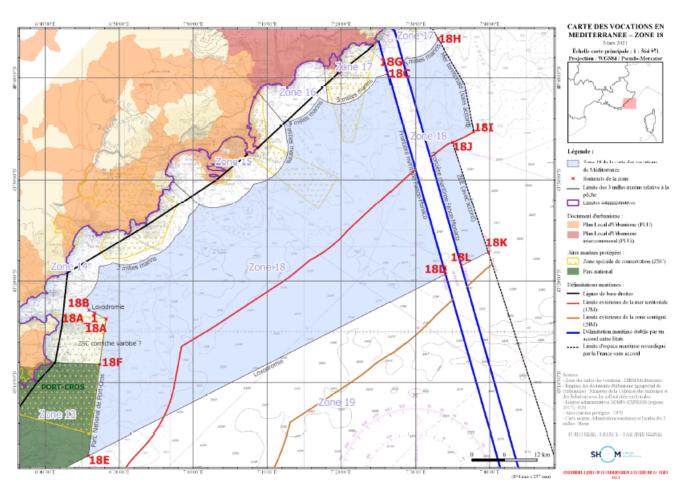


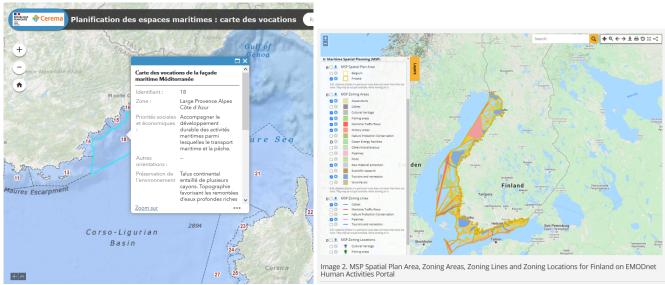


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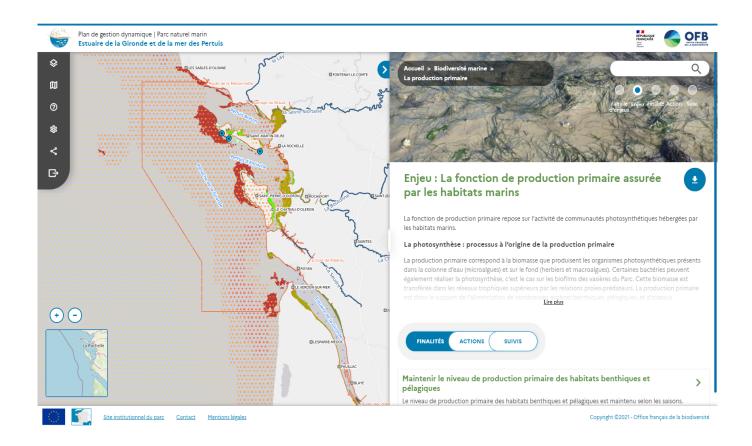








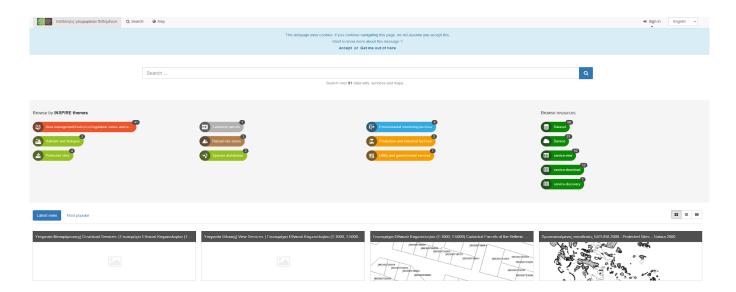




Greece

Evangelos Asprogerakas (University of Thessaly) explained that a new national platform is being developed to integrate data relevant for MSP. This should be created following the structure of the YPEN SDI Geoportal (hosted by the ministry of the environment): a national portal constantly collecting and sharing updated data on the terrestrial environment compliantly with the INSPIRE Directive. The objective is to make it interactive and user friendly, to facilitate active interaction of stakeholders, and update it constantly with MSP plans outputs.





Malta

Michelle Borg (Planning Authority) explained that a specific portal to support MSP has not been created yet for Malta. However a portal exists for planning in the terrestrial domain and there is an internal (non-public) portal which integrates marine spatial information relevant for MSP. A previous EU funded project has created a platform for data sharing amongst different government entities. Effort will be done to pilot marine data sharing on this platform to determine what issues are likely to be encountered e.g. accessibility, comparability etc.

A marine database focused on environmental aspects has been developed through another EMFF project by the responsible authority. As each individual entity works on its own database, this could lead to a positive outcome where online platforms can serve as key medium for data and knowledge sharing.

Slovenia

Slavko Mezek (RRC Koper) explained in his presentation that the first cycle of the slovenian msp process, which officially finished 09/07/2021. So far it has not implemented a specific geoportal to support MSP however, a non specific spatial information system was created to support the gathering of data for MSP, which is operative since 2018.

This portal played a crucial role to inform about MSP concepts, process and outputs; to share input data and final plans and to provide updated information on the implementation stages of the national

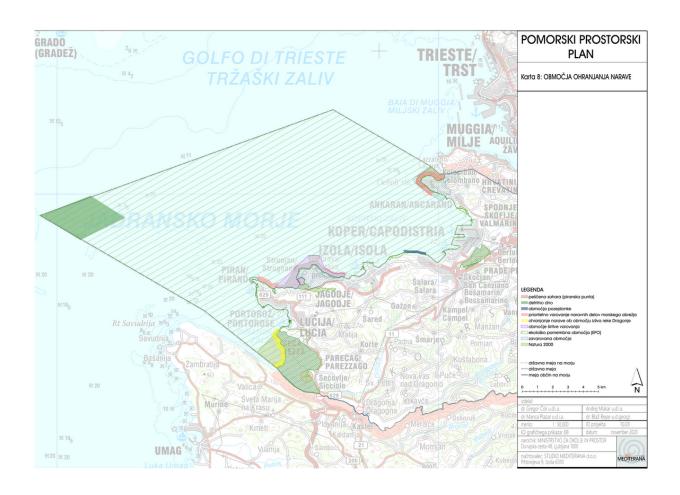




MSP plan. The portal is thought to inform professionals that are already acquainted with the MSP topic, however initiatives to inform the general public on it are expected to be developed at national level.









Beyond data-Towards an adaptive management: Translating data into information and knowledge through monitoring and public awareness

FACILITATOIZ ATZMELLE SOMMIETZ

NATIONAL PRESENTATION ON ADAPTIVE MANAGEMENT

DANIELE BIZIGOLIN (IUAV)

THE IMPLEMENTATION OF DATA INTO MONITORING AND REVIEW OF PLANS WILL BE TAKEN INTO ACCOUNT IN THE NEXT PHASES OF (TALIAN PLAN.

PUBLIC ENGAGEMENT PTZOCESS CUTZTZENTLY STATZTING WILL BIZING NEW ELEMENTS TO DEVELOP IDEAS RECEPTIVE TO THE REPRESENTATION OF MONITORING RESULTS TO THE PUBLIC

OBJECTIVES EXPECTED PROM MONITORING PLANS:

-SHOULD FOCUS ON THE OBJECTIVES OF THE PLAN AND REINFORCE ADAPTIVE MSP

-SHOULD HAVE A FLEXIBLE APPTZOACH THIZOUGH THE SPATIAL AND TEMPOIZAL DIMENSIONS

MORES

OBJECTI VAS

MALTA MICHELLE BOTZG (PLANNING AUTHOTZITY)

FOLLOWING THE ADOPTION OF THE PLAN (2015), THE MONITOTUNG PTZOGTZAM WAS CONDUCTED WITH EVALUATION OF THE PTZODUCED DATA MONITORING INDICATORS ARE BEING FINALIZED.

TOO EATLLY TO SAY WHAT THE OUTCOME WILL BE. GIVEN THAT THE PLAN WAS FOTZMULATED WITH SPECIFIC POLICIES (SEA, LAND & SEA, ETC..): THE MONITOTZING EXETECISE IS DIFFICULT

SPAIN

CIZISTINA CETEVETZA (150)

INFORMING THE PUBLIC: WORKSHOPS AND EVENTS ARE ORGANIZED WITH THE MAIN STAKEHOLDERS BUT EVETZYTHING BECAME COMPLICATED WITH THE COVID.

WEB APPLICATION FOR COLLECTING THE DATA AND PROVIDE INFORMATION TO THE GENERAL PUBLIC

DATA AND MONITORING: SPECIFIC COMMITTEE FOTZ EACH MATZITIME ADMINISTIZATION THE DIZECTOTZATE WILLA ANALYSE DATA AND PTZOPOSE AN UPDATE OF THE PLAN EACH 6 YEATZS

PIZESENTATION OF DATA TO THE PUBLIC: INFOMATE AND THE PROPETE DOCUMENTS OF THE PLANS THAT HAVE BEEN OPEN TO PUBLIC

CONSULTATION IN JUNE.







NATIONAL PRESENTATION ON ADAPTIVE MANAGEMENT

FRANCE

MAITE VETZDOL (MINISITTZY OF THE SEA)

MONITOTUNIC PRAMEWORK: INDICATORS LINKED TO OBSECTIVES ARE PRODUCED

FRANCE IS NOW LOOKING FORZA WAY TO OPERZATIONALIZE THE MONITORING OF THE PLANS.

ADOCUMENT SUBMITTED TO THE PUBLIC IS OTEGANIZED IN TWO MAIN CHAPTETZS, PTZOMOTING AN INTEGTZATIVE APPTZOACH:

ACTIVITIES, USES AND PUBLIC POLICIES

COASTAL ECOSYSTEMS: STATE AND PIZESSUIZE (CF. MSFD)

-> TWO SETS OF INDICATORS GATHERED TOGETHERE IN THE MONITORING PRAMEWORK

BUT MOTZE CONCETENED ABOUT THE SET OF SOCIO-ECONOMIC DATA, TZELYING ON PTZIVATE PTZODUCETZS -> GATHETZ-BOTH PUBLIC AND PTZIVATE DATA.



GREECE

HATZIZY COCCOSSIS (UNIVETZSITY OF THESSALY)

KEY TOPIC: THE NECESSITY TO HAVE A STIZATEGIC ASSESSMENT OF PLANS KEY ELEMENTS OF PLANS AIZE MONITOIZING AND EVALUATION: WHAT AIZE THE IZELEVANT ELEMENTS THAT NEED TO BE INCLUDED? HOW CAN WE ASSESS? => STIZATEGIC ASSESSMENT THIZOUGH MONITOIZING NEED FOIZ KEY INDICATOIZS TO BE IZELATED TO MSP

BEYOND DATA: WHO HAS DATA, TZELEVANT SCALES, COMPATTBILITY OF DATASETS (WHAT ABOUT CONDITIONS, IMPACTS OF PIZESSUTZES, ... CAN WE AGTZEE ON SOME METHODOLOGY?)

HOW CAN WE TAKE ADVANTAGE OF ALL ON-GOING PTZOJECTS?

SLOVENIA

SLAVKO MEZEK (RRC KOPETZ)

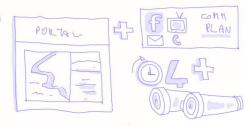
STIZATEGY TO INFORM THE PUBLIC: THEIZE IS NO SPECIFIC STIZATEGY BUT THEIZE WAS A

COMMUNICATION PLAN TZELATIVE TO MSP PTZOCESS, PTZEPATZATION AND TZESULTS

THE POTETAL ALSO AN IMPOTETANT TOOL TO INFOTEM THE PUBLIC ABOUT THE PTEOCESS ITSELF.

MONITOTZING PLAN: MSP DOCUMENT INCLUDE A GENETAL PATRAGTRAPH ABOUT MONITOTZING THAT WILL FOCUS ON THE DESCTZIPTOTZS OF THE MATZINE ENVIRONMENT STATE, AND ON OBJECTIVES OF THE PLAN.

PETZIODIC TZEVIEWS (VETZY FOUTZ-YEATZS) ON THE IMPLEMENTATION OF MSP







Italy

Daniele Brugolin (IUAV)'s presentation focused on the question related to the implementation of data into monitoring and review of plans. The monitoring process should focus on the objectives of the plan and reinforce an adaptive MSP. In addition, the monitoring program should be conducted within a flexible approach through the spatial (resolution adapted to the level of detail needed to meet the plan objectives) and temporal (appropriate resolution depending on sectors/themes) dimensions.

The monitoring program follows a conceptual framework divided in 6 steps: (1) definition of the strategic objectives of the plan; (2) identification of monitoring supervisors (sub-division by sector); (3) identification of indicators (into categories: environmental, pressure, socio-economic, governance); (4) identification of the existing sectors and their monitoring programs, and identification of developing sectors and design of respective monitoring programs; (5) verification of the coherence of indicators adopted in sectoral monitoring programs with those selected for MSP; (6) setting-up the integrated monitoring program. Examples of two indicators of pressures generated by tourism were given. Each indicator has been attributed a spatial and temporal scale, source, and objectives to be tackled.



Furthermore, the cycle of implementation and reviewing of the monitoring program follows a double loop (annual/seasonal, with a mid-term evaluation).

Finally, it was mentioned that the public engagement process is currently starting. This will bring new elements to develop the representation of monitoring results to the public.

Spain

Cristina Cervera-Nuñez (IEO) presented measures contributing to the Spanish strategy to inform the public, from workshops and events organized with the main stakeholders (limited by COVID-19) to the creation of a web application for collecting data and providing the general public with information about uses at sea, restrictions and management provisions established in the plan.

Considering the reviewing of the plan, data and indicators are provided by specific committees (one for each maritime administration) and the CIEM. The Directorate General for the Coast and the Sea will analyse data and propose an update of the plan every 6 years.

Finally, the presentation of data to the public is possible via InfoMar and the documents of the plans that have been opened to public consultation in June. The bottom-up approach (besides the feedback from the formal public consultation) is not yet considered but could be in the future.

France

Maïte Verdol (French Sea and Coast delegation, Ministry of the Sea) presented the monitoring framework (6 years), divided in four steps. After (1) the initial assessment and (2) the definition of strategic objectives and related indicators, France is now working at (3) operationalizing the monitoring of the plans ("assessing the implementation of the strategy document"). The monitoring framework as well as the (4) action plan of the strategy document are submitted to the public.

The document submitted to the public is organized in two main chapters, promoting an integrative approach:

- (1) Activities, uses and public policies
- (2) Coastal Ecosystems: state and pressures (cf. MSFD monitoring programs)

Once collected, data gathered through the monitoring mechanism is integrated to the information systems related to the relevant directives (especially metadata for MSFD) and available (subject to broadcasting rights) via the Marine Environment Information System (SIMM)

The public is consulted on different components of the operational phase via a dedicated platform (MerLittoral2030) where anyone can access and give feedback on the monitoring strategy.





Regarding data and information collection, France is benefitting from the MSFD experience/tasks for the environmental part. However, concerns remain about gathering both public and private data, especially for socio-economic activities. The way to present the complexity of the collected information to the public is still under debate.

Another issue relies on the way to integrate the feedback from the public (MerLittoral2030 platform and participatory sciences).

Greece

Harry Coccossis (University of Thessaly) stressed the necessity to have a strategic assessment of plans. The key elements of plans were defined as monitoring and periodic evaluation, including an effort to be made on selecting the pertinent elements to be considered, and on designing the methodology used to conduct a strategic assessment (e.g. cumulative effects) through monitoring. Key indicators to be related to MSP are still needed.

Some issues were highlighted, referring to (1) the definition of key conditions, key uses and key priorities, and (2) the way to communicate on these.

When looking beyond data, main questions remain on identifying data owners, data accessibility and relevant scales, evaluating the compatibility of datasets, the homogeneity and standardization of methodologies, etc. Indeed, one challenge relies on taking advantage of all on-going projects and studies, by incorporating them, implying efforts about update, maintenance, collection, support (financial and human resources).

Malta

Michelle Borg (Planning Authority) indicated that following the adoption of the plan in Malta (2015), the monitoring program was conducted focused on location and rate of development, however effort has been done to formulate additional monitoring indicators to assess the achievement of the plan objectives and policies. Given that the plan was formulated with specific policies (sea, land & sea, etc..) and the policy framework mainstreams environment, climate change and sustainability, the monitoring exercise has proven to be a challenge particularly to articulate indicators.

The usefulness of the 2015 plan is reflected in its application which in itself is an indicator of the level of understanding of MSP by different entities, developers and the public particularly when submitting applications for coastal and marine projects that are in line with the approved policy. In 2018 a specific project (3 months duration) was conducted with the assistance of the EU SRSP funds to develop a communication toolkit for the Competent Authority to use with different stakeholders (and the public) so





as to encourage their understanding and engagement. Recommendations from this project are still used, i.e. to communicate the outcome of the plan. In parallel, the efforts to develop an MSP geoportal will also seek to provide the same services that the current geoportal on land uses and terrestrial spatial planning delivers.

Slovenia

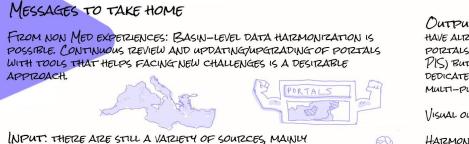
Slavko Mezek (RRC Koper) mentioned that Slovenia has no specific strategy to inform the public but follows a communication plan relative to MSP process, preparation and results.

While there is no specific geoportal for MSP, the Spatial Information System (PIS) provides informative insight into spatial information and thus represents an important tool to inform the public about the process itself.

The MSP document includes a general paragraph about monitoring the plan, but the monitoring system has not yet been defined yet. A study is being prepared and will propose a methodology and monitoring indicators. The monitoring will focus on the descriptors of the marine environment state, and on the monitoring of objectives of the plan. Periodic reviews (very four years) on the implementation of MSP will be conducted.



Wrap up and Greetings



INPUT: THETZE ATZE STILL A VATZIETY OF SOUTZCES, MAINLY INSTITUTIONAL. PIZIVATE AND OPEN SOURCE MATERIALS MAY FACE QUALITY ISSUES, DIFFICULTY IN ACCESSIBILITY AND LEGAL LEGITIMACY PTZOBLEMS.

DATA ATZE OFTEN SECONDATZY ONES AND HATZMONIZATION MAY BE COMPLEX

ENSURING METADATA ARE PRESENT IS IMPORTANT.

STAKEHOLDETZ APPOTZT, E.G. VIA CITTZEN SCIENCE IS NOT YET FULLY IMPLEMENTED. TIZANSBOUNDARY SHARZING HAS HAPPENED BUT IT IS NOT ALWAYS EASY. CLASSIFICATION AND CATEGOTZIES ATZE, IF NOT COMMON, VETZY SIMILATZ

& NVIRONIMENT

OUTPUT: FU MED MEMBETZ COUNTIZIES HAVE ALTZEADY IN PLACE A SETZIES OF POTETALS (GEOLITOTEAL, INFOMAR, SID, PIS) BUT THEY ARE NOT ENTIRELY DEDICATED TO MSP, THEY ATLE MULTI-PUTZPOSES.

VISUAL OUTPUTS OF MAPS ATTE DIFFETENT.

HATZMONIZATION TOWATZDS EMODNET STANDARDS ARE DESIRED BUT NOT ALWAYS SOUGHT-AFTETZ

LANGUAGE BATZIZIETZS ATZE CONSIDETZED ONLY IN SOME COUNTIZIES.



ADAPTIVE MANAGEMENT. MONITORING AND PLAN ADAPTATION IS MAINLY UNDETZ DESIGN, BUT IN SOME CASES INDICATORS HAVE BEEN IDENTIFIED AND THE CONCEPTUAL FIZAMEWOTZKS EXISTS. THETZE ATZE A SETZIES OF CHALLENGES THAT WILL NEED TO BE FACED.

STAKEHOLDERS INVOLVEMENT WILL BE TAKEN INTO ACCOUNT.

Folco Soffietti (IUAV) concluded the 4th Technical workshop with a final wrap up and mentioned the below points as key learnings:

- Non Med experiences: Basin-level data harmonization is possible. Continuous review and updating/upgrading of portals with tools that help facing new challenges is a desirable approach.
- Input: there are still a variety of sources, mainly institutional. Private and open source materials may face quality issues, difficulty in accessibility and legal legitimacy problems. Data are often secondary ones and harmonization may be complex. Also ensuring metadata are present is important. Stakeholder apport, e.g. via citizen science is not yet fully implemented. Transboundary sharing has happened but it is not always easy. Classification and categories are, if not common, very similar.
- Output: EU Med Member countries have already in place a series of portals (Geolitoral, InfoMAR, SID, PIS) but they are not entirely dedicated to MSP, they are multi-purposes. Visual outputs of maps are



different. Harmonization towards EMODnet standards is desired but not always sought-after. Language barriers are considered only in some countries.

- Adaptive Management: Monitoring and plan adaptation is mainly under design, but in some cases indicators have been identified and conceptual frameworks exist. There are a series of challenges that will need to be faced. Stakeholders involvement will be taken into account.



Essential references

MSP Data Study: Evaluation of data and knowledge gaps to implement MSP, 2017

A Guide to evaluating marine spatial plans, IOC-UNESCO, 2014

Directive 2014/89/EU establishing a framework for maritime spatial planning

Directive 2007/2/EC establishing an Infrastructure for Spatial Information in the EC (INSPIRE)

SUPREME, Analysis of Data, Portal, Tools and Methods supporting MSP process

The Communication from the commission to the European Parliament [...] for a sustainable blue economy in the EU, COM/2021/240 final

https://basemaps.helcom.fi/

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