

# How inappropriate to call this planet Earth, when it is quite clearly Ocean.

Sir Arthur C. Clarke<sup>1</sup>

\*\*\*

My Ocean is your Ocean. My Ocean is #OurOcean.

Karmenu Vella, European Commissioner for Environment, Maritime Affairs and Fisheries (2014 – 2019)<sup>2</sup>

\*\*\*

No water, no life; no blue, no green.

Sylvia Earle, oceanographer<sup>3</sup>

\*\*\*

There is no Green Deal without the oceans, no green recovery without the blue economy.

Virginijus Sinkevičius, European Commissioner for the Environment, Oceans and Fisheries (2019 – present)<sup>4</sup>

## **ACKNOWLEDGEMENTS**

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The research project was implemented in the Institute of Legal Science, Faculty of Latvia, University of Latvia, from 01.05.2020. till 30.04.2023.

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## LIST OF ACRONYMS AND ABBREVIATIONS

AIS Automatic Identification System

BSR Baltic Sea Region

CEC Commission of the European Communities

CC Climate change

DG MARE Directorate-General for Maritime Affairs and Fisheries of

the European Commission

EBA Ecosystem-Based Approach

EC European Commission

EU European Union

EEZ Exclusive Economic Zone

EIA Environmental Impact Assessment

EMFAF European Maritime Fisheries and Aquaculture Fund

(previously, EMFF)

EU European Union

GW gigawatt

HELCOM Helsinki Commission for the Protection of the Marine

Environment of the Baltic Sea

HELCOM-VASAB MSP WG HELCOM-VASAB Maritime Spatial Planning Working

Group

ICZM Integrated Coastal Zone Management

IMP Integrated Maritime Policy

INSPIRE Directive Directive 2007/2/EC of the European Parliament

and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the

**European Community** 

LSI Land-sea interactions (interface)

MCH Maritime Cultural Heritage

MoEPRD Ministry of Environment and Regional Development of

the Republic of Latvia

MPA Marine Protected Areas

MSFD Marine Startegy Framework Directive 2008/56/EC

MSP Marine/Maritime spatial planning

## LIST OF ACRONYMS AND ABBREVIATIONS

MSP Directive Directive 2014/89/EU of the European Parliament and of

the Council of 23 July 2014 establishing a framework for

maritime spatial planning

MSPlan/s Maritime/Maritime spatial plan/s

MU multi-use

NGO Non-Governmental Organization

para. paragraph

pc personal communication

OFW Offshore wind energy

SDG Sustainable Development Goal

SEA Strategic Environmental Assessment

UN United Nations

UNCLOS United Nations Convention on the Law of the Sea

UNESCO United Nations Educational, Scientific and Cultural

Organization

UNEP United Nations Environment Programme

VASAB Vision and Strategies around the Baltic Sea

## **GLOSSARY**

- Aquaculture: growing or cultivating aquatic organisms in inland and marine waters, using methods designed to increase the production of the organisms in question, exceeding the natural capabilities of the environment. Aquatic organisms remain the property of a natural or legal person for the entire period of cultivation and cultivation up to and including acquisition.<sup>1</sup>
- Blue economy: "the sustainable use of ocean resources for economic growth, improved livelihoods and jobs while preserving the health of ocean ecosystems." Blue economy encompasses a wide spectrum of both established industries like fisheries, maritime transportation, and tourism as well as developing industries like aquaculture, offshore renewable energy, and marine biotechnology. In a broader sense, "the blue economy concept is a lens by which to view and develop policy agendas that simultaneously enhance ocean health and economic growth, in a manner consistent with principles of social equity and inclusion."
- Ecosystem-based approach (EBA): 1) "strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way"3; 2) "The comprehensive integrated management of human activities [is] based on the best available scientific knowledge about the ecosystem and its dynamics, to identify and take action on influences which are critical to the health of marine ecosystems, thereby achieving sustainable use of ecosystem goods and services and maintenance of ecosystem integrity"4;
- Integrated coastal zone management (ICZM): management of "activities and uses that directly or indirectly span the space between land and sea. The interactions are related to environmental (nature) or socioeconomic systems (human activities) that influence both terrestrial and maritime territories of a country."<sup>5</sup>
- Maritime boundaries: "the legal definitions of waters under national and international law."6
- Marine/maritime spatial planning: 1) "a public process of analysing and allocating the spatial and temporal distribution of human activities in marine areas to achieve ecological, economic and social objectives that have been specified through a political process", 2) "a process by which the relevant Member State's authorities analyse and organise human activities in marine areas to achieve ecological, economic and social objectives."
- **Scenario:** "coherent, internally consistent and plausible description of a possible future state of the world. It is not a forecast; each scenario is one alternative image of how the future can unfold."9
- Strategic Environmental Assessment (SEA): "When setting up a maritime spatial plan a SEA must be carried out. The likely significant effects on the environment have to be described and evaluated in an environmental report and the results of the SEA, as well as any comments received during the participation process, have to be taken into account when balancing the different interests." The evaluation of the plan's possible effects can be done concurrently with the MSP process or as a one-time evaluation during a specific planning stage. 11

<sup>&</sup>lt;sup>1</sup> Aquaculture Development Plan for Latvia 2021–2027; <sup>2</sup> UNESCO-IOC/EC, 2021, p. 8; <sup>3</sup> World Bank, 2016, p. 43.; <sup>4</sup> Convention on Biological Diversity, 2000; <sup>5</sup> European MSP Platform, 2022d after HELCOM-OSPAR (2003); <sup>6</sup> UNESCO-IOC/EC, 2021, p. 21; <sup>7</sup> MSP Directive, Art. 3(2); <sup>8</sup> UNESCO-IOC (Ehler and Douvere), 2009, p. 18; <sup>9</sup> McGowan et al., 2019 after IPCC, 2001; <sup>10</sup> European MSP Platform, 2022d. See, for example, also: Spatial Planning Act ("Raumordnungsgesetz"/ROG), Act on the Assessment of Environmental Impacts (Germany); <sup>11</sup> UNESCO-IOC/EC, 2021.

## INTRODUCTION

During the last 20 years, maritime spatial planning (MSP) has evolved from a theory to a valuable strategy for promoting sustainable ocean development<sup>1</sup> and become a worldwide phenomenon with ever-growing statistics as a result of the rising demand for maritime space from both established and emerging sectors and the need to preserve the healthy functioning of the marine ecosystems.

Only a few nations have started to spatially organise sea areas before 2006.<sup>2</sup> The number of countries pursuing MSP activities increased to over 60 by 2017<sup>3</sup> and more than 70 by 2023<sup>4</sup>. According to the United Nations Educational, Scientific and Cultural Organization Intergovernmental Oceanographic Commission (UNESCO-IOC) and European Commission (EC) data<sup>5</sup>, by 2021, twenty nations have authorised. They are implementing plans for their maritime jurisdictions, which account for 22% of the global Exclusive Economic Zones (EEZs). Twenty-six additional nations, representing 25% of the world's EEZs, were in train to approve plans for the waters under their authority in 2021. Eighty-two more countries have also agreed to continue developing MSP procedures in their maritime jurisdictions, which account for 47% of the world's EEZs and where planning was still in its early stages in 2021. MSPlans are anticipated to cover at least a third of the surface area of the world's EEZs by 2030.<sup>6</sup>

In the European Union (EU), the need for MSP as a spatially oriented tool for better decision-making intended to enable ecosystem-based and holistic management of oceans and coasts<sup>7</sup> in the framework of an integrated approach to maritime affairs or integrated maritime policy (IMP) has become apparent over the past decade. In 2014, Directive 2014/89/EU establishing a framework for maritime spatial planning (MSP Directive) came into force, requiring the development of maritime spatial plans by 31 March 2021 in the EU coastal Member States.

In light of the increased popularity of using MSP globally and regionally, including the Baltic Sea Region (BSR), this manual proposes insight into the MSP accomplishments and their assessments and identification of potential obstacles for its implementation, at the same time drawing on lessons for future planning cycles in the BSR.

More importantly, it is a pivotal moment for the BSR since all the EU coastal Member States in the region have adopted their maritime spatial plans (MSPlans) for the first time.

In that context, this manual offers oversight of the framework and implementation challenges of effective MSP regulation and best practice examples in the BSR.

Research methods used are historical, descriptive, analytical, comparative and triangulation, semistructured in-depth interviews and case studies.

Overall, following the development of MSP in the Baltic Sea region, this can be assessed as consistent and of high quality. However, major challenges hinder the implementation of MSP, monitoring and evaluation, as well as involvement by the general public and taking social and cultural interests into account in MSP. Increasing energy production capacity in the marine environment and protecting biodiversity is also fundamental in light of ambitious climate goals.

<sup>&</sup>lt;sup>1</sup> Ehler at al., 2019; <sup>2</sup> Zaucha and Gee, 2019; <sup>3</sup> Zaucha and Gee, 2019 after Ehler, 2017, and Santos et al., 2019; <sup>4</sup> Lees et al., 2023; <sup>5</sup> UNESCO-IOC/EC, 2021; <sup>6</sup> Ehler et al., 2019 after Ehler, 2017; <sup>7</sup> Gilliland and Laffoley, 2008.



1.
BASIC
INFORMATION
ABOUT THE
MANUAL

#### 1. I. AIMS OF THE MANUAL

The manual aims to provide transparency in the legal environment, facilitating implementing and applying effective maritime spatial planning (MSP) in the Baltic Sea for implementers of the legal norms, industry representatives and spatial planning specialists in daily practice and ensuring compliance with the principles of sustainability, efficiency, and good governance of MSP. This is provided through the prism of the challenges and opportunities related to MSP adoption, application, and practice. The roadmap in the tangled MSP world for implementers of the legal norms, industry representatives and spatial planning specialists is ensured by documenting the development and lessons learned on MSP in the BSR related to the new and developing concerns of ocean ecosystem-based management. As a result, purposes concerning the MSP implementation and new planning cycles in the BSR.

The practical user's manual consists of 7 chapters. Chapter 1 includes basic information about the manual, describing its key features, including instructions on how to use it. Chapter 2 covers the background of MSP, including its history, legislation, purpose and nature and steps of the MSP. Chapter 3 contains descriptions of the Baltic Sea Region and country profiles. Chapter 4 is devoted to the characterisation of the blue economy sectors. The core part of the manual is Chapters 5 (Best MSP regional practice), 6 (Future challenges of MSP) and 7 (Effectiveness). The manual offers a valuable information source to be used daily and for training of MSP.

#### 1. II. THE MAIN TARGET AUDIENCES

The primary target audiences of this manual are implementers of the legal norms, including policy-makers, governmental officials and local authorities, industry representatives and spatial planning specialists, *among other things*, to more fully comprehend the significance of their function, as well as when and how they might contribute to an MSP process. With the same purpose, the manual might interest civil society organisations and professionals. Additionally, the manual might be a valuable source for legal scientists, researchers and academics of other sciences, students and the general public interested in MSP matters.

Geographically, the main target groups represent BSR. However, the collected experiences and best practice examples can also be transferrable and applicable in other sea basins – be it in the framework of the EU or even worldwide.

#### 1. III. NEED FOR THE MANUAL

When the Directive 2014/89/EU establishing a framework for maritime spatial planning (MSP Directive) came into force in 2014, requiring the development of MSPlans by 31 March 2021, it served as the driver to develop the MSPlans in the BSR.

Nevertheless, Germany and Lithuania had their first MSPlans adopted earlier. Most BSR countries started establishing their MSPlans for the first time.

These trends marked the need to focus on the analysis of MSPlans, including from a practical point of view, to provide the most up-to-date information on MSP to the stakeholders and other interested parties involved in these processes.



#### 1. IV. DEVELOPMENT OF THE MANUAL

This manual was developed through the implementation of the research project "Effective Maritime Spatial Planning Regulation Framework and Implementation Challenges and Best Practice Examples for the Context of the Baltic Sea" (project No. 1.1.1.2/VIAA/3/19/514) ("research project") financially supported by the specific support objective activity 1.1.1.2. "Post-doctoral Research Aid" of the Republic of Latvia and funded by the European Regional Development Fund (project No. 1.1.1.2/16/I/001).

The research project was implemented in the Institute of Legal Science, Faculty of Latvia, University of Latvia, from 01.05.2020. till 30.04.2023.

The research project which led to this manual's elaboration was a theoretical and empirical study. Thus, scientific research methods are the historical, descriptive, analytical, comparatively analytical perspective of transnational environmental law and triangulation, semi-structured in-depth interviews and case studies. Legal acts and political and planning documents were used by their status on March 31, 2023.

During the research, MSP current affairs in BSR were followed, especially the process of adopting new MSPlans.

Furthermore, the in-depth semi-structured interviews conducted between November 2021 and June 2022 have played a significant role in the creation of the manual. In total, 60 interviews were conducted with 67 respondents, representing public authorities, non-governmental organisations, professional associations, spatial planning and other sector-specific enterprises and academic institutions in all coastal Member States of the EU in the BSR.

Instead of presenting the MSP as a short series of phases, the manual presents it as many subjects, each highlighted through lessons learned and case studies.

#### 1. V. INSTRUCTIONS TO USE THE MANUAL

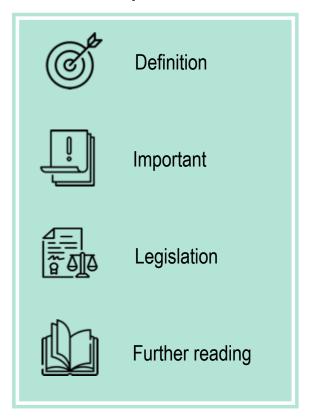
This manual can be read in any chapter to learn about MSP topics, activities, case studies, and actions. It is intended to be utilised at any step of an MSP process, from the first or pre-planning phase to implementation.

As a result, this manual can be used to create MSP training programs, facilitate teaching and learning, improve best practices, and involve audiences of different kinds in wide geographical settings.

The visual icons are applied to categorise material throughout the manual, as indicated in Table 1.1. The user can decide how to utilise the book, and a structure has been created to easily access essential issues that have emerged in recent years.

The information is not meant to be prescriptive or follow a "one-size-fits-all" philosophy; rather, it is intended to enable the creation of various MSP procedures and plans.

#### Icons and explanations used to categorize material in the manual





Source: see Annex 3. Credits to the used additional visual materials

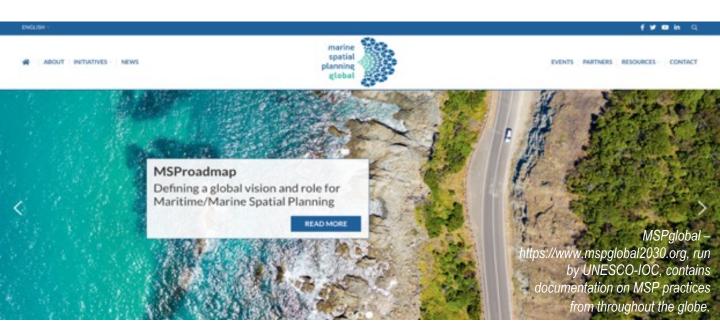
# 1. VI. INFORMATION ABOUT OTHER EXISTING RESOURCES

At the national or subnational level, several international organisations—both governmental and non-governmental—academic institutions and the commercial sector have created various sorts of papers that either directly or indirectly contribute to the development of MSP.

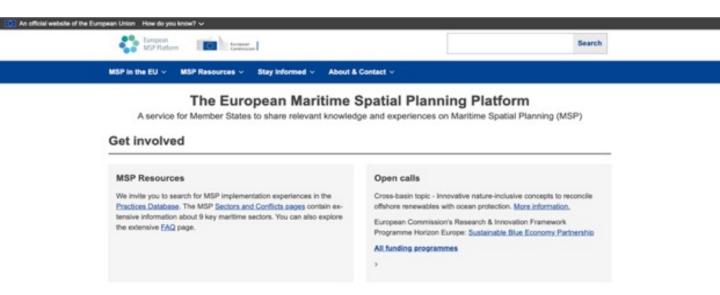
The most prominent sources in this regard are the guidebooks prepared by the UNESCO-IOC (UNESCO-IOC [Ehler, C., & Douvere, F.], 2009), later on, joined by the European Commission (UNESCO-IOC/EC, 2021), comprising several focused policy briefs (UNESCO-IOC, 2021a, 2021b, 2021c, 2021d, 2021e, 2021f) along the EC's specially dedicated papers to MSP topic (2017a).

In this regard, digital websites as online MSP knowledge platforms are essential, developed and supported by these international organisations.

#### 1. BASIC INFORMATION ABOUT THIS MANUAL



The European MSP Platform comprises information on country-level MSP profiles, funded-project results, and current field operations, acts as a sort of "one-stop web access point" and knowledge hub at the regional level.



The European MSP Platform – <a href="https://maritime-spatial-planning.ec.europa.eu">https://maritime-spatial-planning.ec.europa.eu</a> – is financed by the European Commission (EC) under the European Maritime and Fisheries Fund and created as an activity under the MSP Assistance Mechanism implemented by the European Climate, Infrastructure and Environment Executive Agency (CINEA) and Directorate-General for Maritime Affairs and Fisheries of the European Commission (DG MARE).





"At the beginning, there was quite a lot of discussion and, well, a lot of misunderstanding about what MSP is. At some point, there was a lot of pressure on making it, in fact, only an environmental instrument, which would be very improper because we kept saying that yes, of course, it is an instrument for the environment too. Still, it's really for organising space in a comprehensive, sustainable way, and the sustainable way does not mean that it's the environment. It means that all possible uses live together, don't spoil each other's chances to say it very simply,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

## 2. I. HISTORY OF MSP

- Since the late 1970s, the scientific and environmental communities have gradually brought attention to problems with the oceans, such as rising ocean acidification, loss of biodiversity, weakening of food chains due to contamination of the water, fragmentation of aquatic ecosystems, deterioration of the integrity of goods and services provided by marine ecosystems, and warming of the oceans.<sup>1</sup>
- According to this background, MSP was created to extend the logic of constructing MPAs to conserve marine nature.<sup>2</sup>
- The Great Barrier Reef Marine Park in Australia, whose zoning dates back to the 1960s and early 1970s, is the most frequently referenced and innovative example. It was legally established in 1975, and its initial plan was enacted in 1981.<sup>3</sup>
- Since the 1992 UN Conference on Environment and Development in Rio de Janeiro, an expanding international discourse on integrated marine governance has emerged.<sup>4</sup>
- The principles of "marine governance" and "marine ecosystem-based management" have thus become practical operations, some of which have come to be known as MSP over the last 15 to 20 years.<sup>5</sup>
- As a result, the early 2000s are when MSP began to gain popularity and expand globally.
   According to Zaucha, this period marked "a turning point for the conceptualisation of the
   marine space management," including the BSR7. More specifically, in Europe, MSP work
   started in 2002 as part of the BaltCoast project, which was funded by the EU and
   included Germany, Sweden, Estonia, Poland, Latvia, Denmark, and Finland.8
- Overall, during the past decade, the political and legal framework of the EU has also begun to reflect the significance of MSP increasingly.<sup>9</sup>
- Initiated by the EU's 6th Environment Action Programme<sup>10</sup>, MSP was initially supported by the approval of the European Marine Strategy in 2005<sup>11</sup>, followed by the "Green Paper" in 2006<sup>12</sup>.

<sup>\*</sup> Based on review and references: Neimane, 2020a, 2020b.

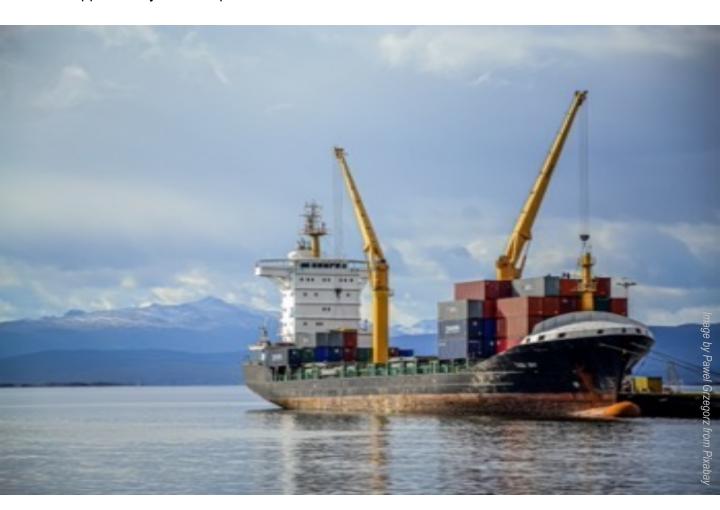
<sup>&</sup>lt;sup>1</sup>Douvere, 2008; <sup>2</sup> Jay, 2013; <sup>3</sup>Day, 2002, 2008, 2015; UNESCO-IOC (Ehler and Douvere), 2009; <sup>4</sup> Jay et al., 2013; Plasman, 2008; <sup>5</sup> Ehler, 2014; <sup>6</sup> Zaucha, 2014b; <sup>7</sup> Cieślak, 2009; Wismar Declaration, 2001; Zaucha, 2014a; <sup>8</sup> Zaucha and Gee, 2019; <sup>9</sup> Douvere, 2008; <sup>10</sup> European Parliament and Council of the European Union, 2002; <sup>11</sup> CEC, COM(2005) 504 final; <sup>12</sup> COM COM(2006) 275.

"I think I was involved from the very beginning because in Europe, MSP, in fact, started with a project called BaltCoast which was to deal with ICZM. During a meeting on the possible themes for this project, which took place in Latvia in 2000, I said then that, well. I see the term ICZM is being stretched around so much by various EU projects that there's hardly anything very new for the project to work on, while there is a topic which to my mind is very important: that is the organised use of the sea (we called it then "sea use planning"), and we should work out some ideas about that. And happily, especially the people from Germany, who were also at that meeting, caught up on it. This BaltCoast project had three thematical groups, the third of which was called sea use planning and that thematical group produced, in fact, the fundamentals for EU thinking on [MSP]. The resultant conclusions and recommendations of this part of the project proved the most valuable of the whole project,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022



- In 2007, the Integrated Maritime Policy (IMP) and its Action Plan were approved<sup>1</sup>. This policy served as the foundation for a variety of activities relating to the sustainable management of European Regional Seas<sup>2</sup>, including the EU strategy for BSR.<sup>3</sup>
- The MSP roadmap followed IMP in 2008.4
- The environmental tenet of the IMP was established in 2008 with the adoption of the Marine Strategy Framework Directive 2008/56/EC (MSFD)<sup>5</sup>. It sets "a framework within which Member States shall take the necessary measures to achieve or maintain good environmental status in the marine environment by 2020 at the latest"6 and affirms an ecosystem-based approach7.
- The Directive 2014/89/EU establishing a framework for MSP (the "MSP Directive") was approved by the European Parliament in 2014.



<sup>\*</sup> Based on review and references: Neimane, 2020a, 2020b.

1 COM(2007) 575 final; 
2 Meiner, 2010; 
3 CEC, COM(2009) 248 final; 
4 CEC, COM(2008) 791 final; 
5 MSFD, Recital 3; 
6 MSFD, Article 1.1; 7 MSFD, Recitals 8, 44.



"I became the Polish representative for ICZM in the group of national ICZM experts, organised some time before to support the DG Environment of the Commission in their work with ICZM. This group was working out some suggestions for improved implementation of ICZM. Among other things, this group worked out a set of indicators on the effectiveness of ICZM and the degree of implementation of ICZM in EU countries.

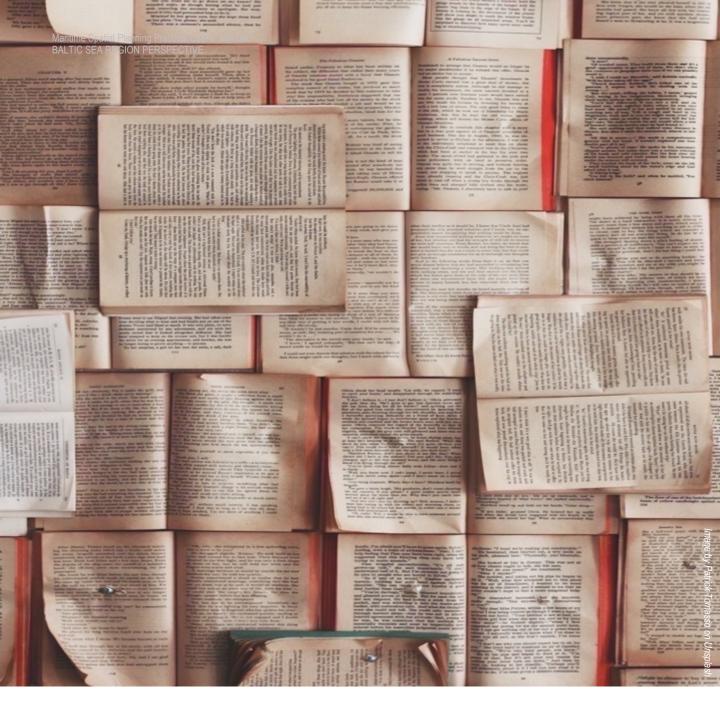
And I introduced the idea that one of the indicators for ICZM implementation should be that the country has an MSP system. This was met with quite a lot of surprise. That was in 2002 or 2003. And that was quite a surprise for some of the people and some of the countries participating in the ICZM Group. But happily, and quite surprisingly, I found support from the representatives of France and the Commission in this group. And, well, we put that into the indicator on the degree of implementation of ICZM. I think that this started it all. Plus, I would say – this made the idea of MSP more widely known because, in the meantime, we finished the BaltCoast project, and recommendations went out, but they were not so very well known. They became much better known because of this indication from the workgroup of ICZM national experts. And, so, well, it went on. Somehow, after some time, the Commission caught on. Then the Directorate concerned with maritime affairs started seriously looking into it. And from that, I would say the work on the Directive on MSP began,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

- The deadline for the transposition of the MSP Directive in EU coastal Member States was 18 September 2016, including the designation of the institutional structure responsible for the implementation of the directive in the specific country, while marine spatial plans had to be developed by 31 March 2021.1
- The MSP Directive is "the strongest transnational legal instrument in the field of marine planning applicable to the EU Member States in the region"1, boosting the Europeanization of MSP<sup>2</sup>.
- However, while the initial MSP initiatives and international events promoting the sustainability of the marine environment historically placed a greater emphasis on marine conservation, gradually, the focus has shifted to the Blue Economy and the sustainability of that sector<sup>3</sup>.
- The Blue Growth strategy was unveiled in 2012<sup>2</sup> to advance IMP and "is perhaps the most well-known and well-established application of the Blue Economy concept"4.

<sup>\*</sup> Based on review and references: Neimane, 2020a, 2020b.

<sup>1</sup>MSP Directive, Article 15; <sup>1</sup>Backer, 2015, p. 138; <sup>2</sup>Zaucha, 2014a; <sup>3</sup>Bennett, 2018; <sup>4</sup>CEC, COM(2012) 494 final; <sup>3</sup> Voyer et al., 2018.



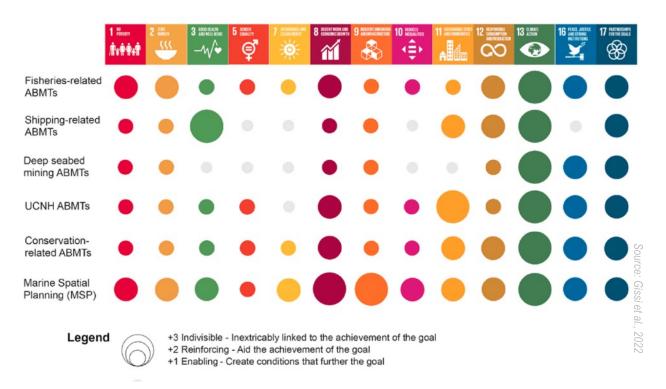
## 2. II. LEGISLATION

"The adoption of the Directive and its implementation has made the EU the grouping of countries that is most advanced in developing MSP, and an international point of reference in this field,"

"As nature is complex, we also need complex legislation,"

informant #6 – MSP researcher, Sweden, pc. December 14, 2021

Along with many other political goals and aspirations, MSP should support the
accomplishment of target 2 of Sustainable Development Goal 14 (SDG 14), "Life below
Water" of the UN 2030 Agenda – "Sustainably manage and protect marine and coastal
ecosystems to avoid significant adverse impacts, including by strengthening their
resilience, and take action for their restoration in order to achieve a healthy and
productive ocean". Additionally, the connection of MSP with other so-called oceanrelated Sustainable Development Goals has been recognised.<sup>2</sup>



The potential contribution of existing Area Based Management Tools (ABMTs) stipulated in international and regional agreements towards the achievement of selected ocean-related SDGs at the goal level.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> UN General Assembly, 2015; <sup>2</sup> Gissi et al., 2022; <sup>3</sup> UCNH = Underwater Natural and Cultural Heritage.

- MSP must be included in a nation's legal structure to be effective, enforceable, and capable of achieving its stated goals.<sup>1</sup>
- As a result, various international conventions and agreements and instruments of a recommendatory nature influence the MSP. In other words, in the context of sustainable development of marine areas, sustainable use of marine resources, and sustainable growth of the maritime economy, the MSP is unquestionably founded on concepts and practices that come from an amalgamation of international, global, and regional law as well as domestic law.<sup>2</sup>
- Legally, the MSP has a "branching" effect and a direct impact on many other sectors, mirrored at the regional level in the MSP Directive's linkage to fulfilling the goals of different directives and the vision of policy papers.<sup>3</sup>
- This "branching" consists of the European Green Deal<sup>4</sup> and the European Recovery Plan<sup>5</sup>, as well as numerous more legislation and directives, guidelines, missions, and programs for territorial cooperation.<sup>6</sup> Also, it should be remembered that legislation is continually being reviewed and modified<sup>7</sup> while new implementing acts and action plans associated with policy texts are developed.<sup>8</sup>
- According to the European Commission, "the key to successful [MSP] lies in acknowledging that all existing EU legislation and initiatives related to marine activities are intertwined and should be treated as different branches of one same tree."9
- As a result, MSP operates within a branched framework of policy documents and legislation, based on the idea of synergy, in a changing set of shifting policy priorities<sup>10</sup> to address the economic and socio-ecological usage of the sea and to accomplish larger sustainability goals at sea.<sup>11</sup> Therefore, MSP serves as a lever to balance the sustainability paradigm's ecological, economic, and social facets.<sup>12</sup>
- When enacting legislative measures effective for MSP, harmonising sectoral issues, and planning the marine environment, governments must abide by international and regional laws and operate within the framework of a complex array of marine and maritime rights and obligations in addition to special EU regulation.<sup>12</sup>

<sup>&</sup>lt;sup>1</sup> Environmental Law Institute, 2020; <sup>2</sup> Neimane and Puzulis, 2022, forthcoming, after Pyc, 2019a; <sup>3</sup> Neimane and Puzulis, 2022, forthcoming after EC, 2010, 2022; <sup>4</sup> EC, COM(2019) 640 final; <sup>5</sup> EC, COM(2020) 456 final; COM(2020) 442 final; <sup>6</sup> Neimane, 2020a; <sup>7</sup> see, for example, EC, COM(2021) 240 final; <sup>9</sup> EC, 2010, p. 17; <sup>8, 10, 12</sup> Neimane et al., 2022; <sup>11</sup> Tafon, 2018; <sup>13</sup> Neimane, 2020a after Backer, 2015.

- The UN Convention on the Law of the Sea (UNCLOS), the Convention on Biological Diversity, the Convention on the Protection of the Marine Environment of the Baltic Sea Area (Helsinki Convention), as well as agreements based on the International Maritime Organization, regional fisheries agreements, and the legal and political framework of impact assessments, to name a few, should be distinguished among the international and regional tools.<sup>2</sup>
- UNCLOS is "the overarching 'constitution' governing all activities at sea."



**IMPORTANT.** "However, it should be clearly stated that UNCLOS contains no expressis verbis requirements relating to global ocean governance or MSP (Pyc, 2019). As a result, ocean space planning has become a natural progression of the structuring of obligations and use of rights allowed by UNCLOS, as well as a practical tool in aiding state parties to comply with their commitments (Pyc, 2019)."<sup>5</sup>

Direct quotation from source: Kaminskis et al., 2022.



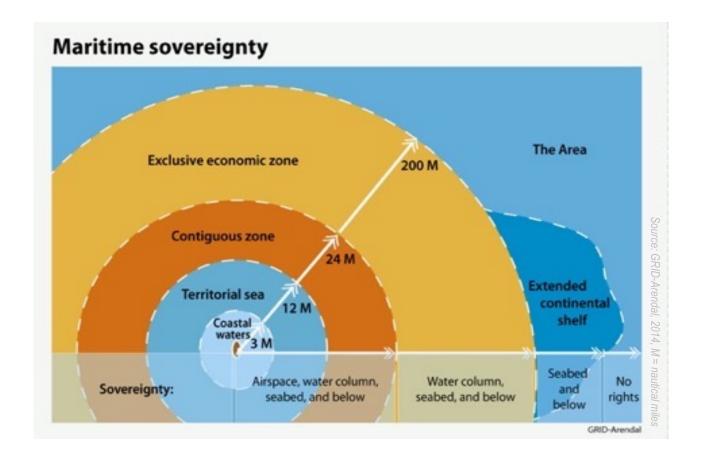
BEST PRACTICE EXAMPLE. The German Water and Shipping Administration's research of ship traffic using AIS data forms the foundation of spatial planning in the EEZs. According to UNCLOS, shipping carries a particular weight. Hence places designated as priority zones must be clear of obstructions (like wind farms). This classification is the outcome of UNCLOS Art. 60, para. 7, which prohibits coastal governments from establishing facilities if those installations have the potential to obstruct the use of recognised sea lanes that are vital to international navigation.

Source: European MSP Platform, 2022d.

 UNCLOS outlines the general principles of maritime boundaries and jurisdictional structures for the authority to administer and regulate maritime zones. The ability to create and enforce a marine spatial plan covers the entirety of the territorial sea under-recognized national sovereignty and national sovereign rights and jurisdiction over specific issues in the EEZ and continental shelf.<sup>4</sup>

<sup>&</sup>lt;sup>1</sup> Neimane, 2020a after Backer, 2015; <sup>2</sup> Neimane, 2020a after Backer, 2015; Cieślak 2009; Maes, 2008; <sup>3</sup> EC/High Representative of the Union for Foreign Affairs and Security Policy, 2019, p. 2; <sup>4</sup> UNESCO-IOC/EC, 2021.

 To establish MSP, it is crucial to comprehend and use maritime boundaries and be aware of national and international rights, including the right to safe, innocent passage.<sup>1</sup>



- With the implementation of the MSP Directive in 2014, a legally binding framework was established in the EU. For various reasons, MSP emerged as an advanced integrated planning and management strategy and technique to address the growing demand for maritime space.<sup>3</sup>
- According to the Directive, MSPlans must be in place by the Member States by March 31, 2021. In this way, theoretical and technical concepts were converted into practical capabilities<sup>4</sup>, and the substantive and procedural requirements for the adoption and execution of MSPlans at the EU level were established.

<sup>&</sup>lt;sup>1</sup>UNESCO-IOC/EC, 2021; <sup>2</sup> Friess and Grémaud-Colombier, 2021; <sup>3</sup> Grimmel et al., 2019; Morf et al., 2019.

"On land where we've had spatial planning for 100 years, of course, it's very detailed, and many things are taken care of in the planning process. But it's also taking 100 years to get to that point. So, when we established the Maritime Spatial Plan, we didn't try to copy that approach because, of course, we cannot do that because we are in year one of planning at sea, and that's why we need to look at it as the first plan, and that, of course, there is room for improvement and for developing and expanding on the plan,"

informant #43 – governmental official, Denmark, pc, March 14, 2022 "The legal point is the first thing to be aware of, to consider when planning any project, especially marine spatial planning project. So, what are the legal framework requirements; that's absolutely top number one thing to consider that needs to be changed and also adapted in a lot of areas."

informant #39 – MSP researcher and practitioner, Germany, pc, March 10, 2022

"On the terrestrial areas, on land, we have a very detailed spatial planning legislation in Denmark on how it should be done. But that we don't have that on the sea."

informant #65 – NGO representative, Denmark, pc, June 16, 2022



**IMPORTANT.** "Overall, from a legislative point of view, in combination with other relevant legislation (e.g., 1992 Habitats Directive, 2002 Common Fisheries Policy, 2000 Water Framework Directive), EU institutional MSP framework is composed by three principal regulatory instruments – IMP, MSFD, and MSP Directive – all together they 'establish MSP as an integrative tool to address these issues and achieve broader environmental, economic and social sustainability objectives at sea' (Tafon, 2018 p. 261)."

Direct quotation from source: Neimane, 2020b, p. 36.

"The document itself is not enough: there should also be a regulatory framework in place to enable some developments as well. So, it's not only MSP but also other legal documents that should have been in place,"

"Having a plan, it's not enough. We need to have the regulatory framework to describe all conditions for different somehow, let's say, sea uses: what is permitted, what is not permitted, what are the limitations."

> informant #29 – spatial planner, Estonia, pc, February 17, 2022

informant #11 – business representative,

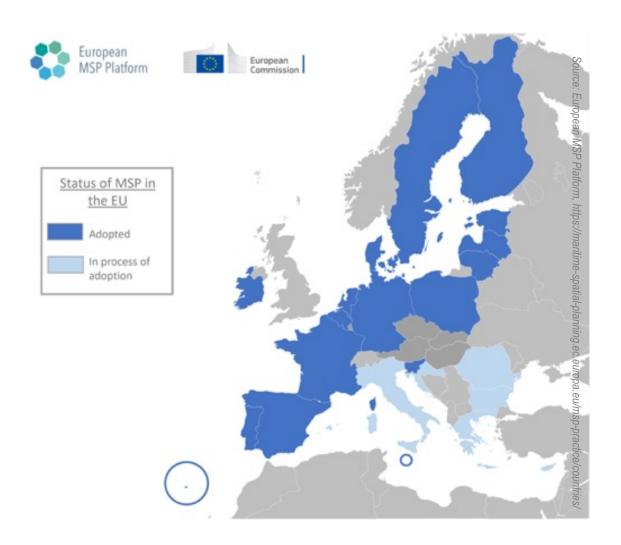
Lithuania, pc, January 13, 2022

"We need to recognise that Member States are very different and [MSP Directive] has to be fairly broad to accommodate different styles of planning, different prerequisites, different ways of doing planning, and planning is a national competency,"

"The MSP Directive sets a minimum framework, and it leaves a lot of room for manoeuvre to the Member States. I mean, we have Member States where it is Environment Ministry that is in charge... in other Member States, it's the Ministry of Transport; in other Member States like Estonia, it's Finance Ministry. [..] Same for the administrative organisation. We have countries where local and regional authorities have a very strong role, and that's posing quite a headache how to set up the concept,"

informant #42 - MSP researcher and practitioner, Germany, pc, March 11, 2022

Felix Leinemann, Head of Unit - Blue Economy Sectors, Aquaculture and Maritime Spatial Planning, European Commission (VASAB, 2021b)



"Now, looking back at 2014, out of 23 coastal Member States of the [EU], just three had something that could be considered a maritime spatial plan for their waters. Probably, there were coastal plans but for their waters, only three of them... But since then... and today it's only 22 coastal Member States, but all these coastal Member States have established a vision for the use of their waters. They have discussed it with stakeholders; they have discussed it with their neighbours; they have put in place administrative and political processes to establish and agree upon a [MSPlan], and most of them for the first time ever. And this, I think, is a terrific achievement in only seven years to have come this far because these are immensely complex processes. [..] I think that we can be very proud that Europe or the [EU] is the first region in the world to have achieved this. We are also setting an example in terms of international ocean governance in that sense,"

Felix Leinemann, Head of Unit – Blue Economy Sectors, Aquaculture and Maritime Spatial Planning, European Commission (VASAB, 2021b)

"I can see that MSPs in Europe have similarities regarding their legal value. But then the detail of the MSP determinations, they're different, obviously,"

> informant #10 – business representative, Germany, pc, January 13, 2022

"This is this new generation legislation... this MSP Directive that gives you some goals, but each country can decide how they tackle this issue. And I think this is a good way because then you can take really into account the specificities of your country, and you have quite a lot of liberty to do your plan,"

informant #37 – MSP researcher, Estonia, pc, March 7, 2022

"Even though most countries, I mean, at least in my reading that there are the same wordings more or less in all of our different regulations of the MSP, and it comes from the European Union, but at the end, these national contexts, history, the mentality is that play a role in how we manifest this thing. It means that the sustainability of the sea is different in Lithuania and Latvia. There is a difference. It also means in terms of implementing the ecosystem approach what is the barrier: if the ecosystem approach postulates that we should manage the sea in line with the requirements of the sea, it might mean different things, you know, in Lithuania and Latvia. It's natural, but it's not perhaps, you know, what is intended originally,"

> informant #18 – MSP researcher, Sweden, pc, January 25, 2022

"I think the good thing with MSP is that all countries had to plan, or at least make a map of what they have. I think for many that in itself it was essential to be able to sit down and map out what we have, where we have the conflict, where we have resources that can be used for more than one thing,"

informant #4 – MSP researcher and practitioner, Sweden, pc December 7, 2021

- After the adoption of MSFD, which established the criteria for the conservation of the
  aquatic ecosystem, the MSP Directive emerged as a mechanism of spatial and
  temporal distribution controls in terms of achievement or maintenance of good
  environmental status in the marine environment<sup>1</sup> and a crucial enabler for utilising the
  commercial value of the oceans while maintaining long-term sustainability.<sup>2</sup>
- In 2017, in cooperation with the UNESCO-IOC, the EU initiated the acceleration of the use and application of the MSP process on a global scale.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> MSFD, recital 22, 38, annex part A, point 6; <sup>2</sup> EC, 2020. EC, 2020; <sup>3</sup> UNESCO-IOC/EC, 2017, 2022.

## 2. III. PURPOSE AND NATURE OF MSP

The Recital 19 of the MSP Directive declares that "the main purpose of [MSP] is to promote sustainable development and to identify the utilisation of maritime space for different sea uses as well as to manage spatial uses and conflicts in marine areas."



- MSP "is a general term that designates integrated sea governance through balancing the demands of development and the need to protect the environment. By applying the ecosystem-based approach, MSP is the most commonly accepted management framework for promoting the long-term sustainability and Blue Growth of the marine environment globally."1
- In this sense, MSP serves as the balancing mechanism and must be used to lessen disputes between the many users by developing a just solution.<sup>2</sup> In that regard, the term "marine safety" could be used terminology-wise.

"The basic thing for the maritime administration is safety. Of course, in a very large or broad context, safety, maritime safety is not just the safety of ships. It's, of course, environmental safety and the safety of people. It's the safety of investments, but it's a specific safety dependent on the environment in which all this is done, and also because the marine environment is an exceptional kind of environment, which carries with it a lot of risks, dangers, of course, possibilities, but it has to be safe,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022 "One has also to think, what is the aim of MSP. MSP is not alone as a tool to make offshore possible. MSP is a planning tool to look at the maritime area and decide where to allocate specific uses; so you don't have accidents, you don't have conflicts and so on. So, it's like a peace-making tool. It should help to avoid conflicts at a later point in time,"

informant #10 – business representative, Germany, pc, January 13, 2022

• MSPlan is a tool to be used in the MSP process execution and constitutes "the framework of conduct." At the same time, the MSP is a process that entails more than just creating a document in its functional sense as a planning process rather than only in its instrumental sense (i.e., a spatial plan).

<sup>&</sup>lt;sup>1</sup> Neimane, 2022a, p. 35; <sup>2</sup> informant #8, Germany, pc, December 22, 2021; <sup>3</sup> Pyc, 2019a, p. 315; <sup>4</sup> Neimane and Puzulis, 2022, forthcoming after Pyc, 2019a; Troullet, 2020.



**IMPORTANT.** "MSP is a comprehensive and strategic process to analyse and allocate the use of the sea areas to minimise conflicts between human activities and maximise benefits, while ensuring the resilience of marine ecosystems. It typically addresses many sectors, their interrelationships and cumulative impacts, and provides for spatial and temporal measures to steer different uses of the sea areas or resources. Spatial measures can be, for instance, allocation of space for particular uses (and exclusion of uses) or place-specific or general conditions for the use of sea areas or resources. MSP documents may also highlight important areas and societal preferences without explicit spatial dimensions. [..] The MSP process takes sectoral management into account and may use it as a basis for planning provisions, but MSP does not replace single-sector management measures. [..] [Overall], the MSP process can then be an opportunity for the development of a comprehensive marine governance system."

Direct quotation from source: UNESCO-IOC/EC, 2021, p. 23.

MSP generally offers solutions to the "where and what" concerns. Other regulations,
which use other tools like certification and licensing, are responsible for "how, in what
way" it occurs. Therefore, "where, what" as a task of the MSPlan and "how, in what
way" as a question of the scope of other tools are aspects that need to be distinguished
when analysing the MSP.1



**APPROACH.** In Germany's federal MSPlan, "the spatial development plan is to lay down provisions which serve to protect and improve the marine environment. A threat to the marine environment should be avoided as far as possible. Unavoidable impacts are to be reduced as far as possible. This principle also considers existing technical regulations and generalises them in the interests of sustainable use of the EEZ using the ecosystem approach."

Direct quotation from source: European MSP Platform, 2022d.

 As the most widely accepted and comprehensive management framework for marine planning and regulation for the promotion of sustainable development and Blue Growth by integrating ecological, social, economic, and institutional perspectives, there seems to be a consensus that MSP is an essential, valuable, and practical key tool for helping to implement the ecosystem-based approach (EBA).<sup>2</sup>



**IMPORTANT.** "MSP "provides a needed comprehensive and integrated investment framework for the public and private sectors by dealing with upstream environmental and social issues and by giving certainty to investors to access areas and resources."

Direct quotation from source: World Bank, 2022a, p. vii.

<sup>&</sup>lt;sup>1</sup> Neimane and Puzulis, 2022, forthcoming; <sup>2</sup> Neimane, 2020a after CEC, COM(2008) 791 final; Douvere, 2008; EC, 2010; Ehler, 2014; Flannery and Ellis, 2016; Gilliland and Laffoley, 2008; Grimmel et al., 2019; Jay et al., 2013; Morf et al., 2019; Ritchie, 2014; UNESCO-IOC (Ehler and Douvere), 2009.

- When integrating MSP and EBA, some of the "wicked" problems typical to planning can be overcome. In this way, planning is guaranteed to extend across jurisdictional borders, take cumulative effects into account, adopt a precautionary approach, and be adaptive.<sup>1</sup>
   The EBA and MSP coupled structure has been discussed and pushed for approximately two decades.<sup>2</sup>
- For instance, several tools exist for putting EBA into practice, such as a strategic environmental assessment (SEA)<sup>3</sup> and the Marine Strategy Framework Directive<sup>4</sup>. The MSFD mandates using EBA in managing human activities and recognises MSP as a tool for ensuring that the combined pressures of such activities are kept within ranges that allow for good environmental status in the marine environment and the sustainable use of marine goods and services.<sup>5</sup>
- At the same time, the potential of MSP to serve as a process for larger societal discourse that goes beyond the limited spatial planning perspective can be accepted.<sup>6</sup> For example, MSP can be the critical enabler of a sustainable blue economy.<sup>7</sup>

"I think that the future will show what weight the plan is given. As a tool, I think MSP is a good idea. I think the idea of environmental planning is important because that's the only way to have a holistic or broader view of what's happening in the marine areas or the marine environment. Moving away from a sectorial approach, I think it's important. So, as a concept, I think it's good,"

informant #6 – MSP researcher, Sweden, pc, December 14, 2021 "The MSP is about planning space, which means that spatial planning cannot solve all problems. It solves spatial problems and ensures sufficient space for the uses we need now and in the future,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

<sup>&</sup>lt;sup>1</sup> Ansong et al., 2014; <sup>2</sup> Domínguez-Tejo et al. 2016; <sup>3</sup> European MSP Platform, 2022d; <sup>4,5</sup> Veidemane et al., 2017; <sup>6</sup> UNESCO-IOC/EC, 2021; <sup>7</sup> Neimane, 2020b.

#### 2. III. PURPOSE AND NATURE OF MSP

"MSP is not the answer to all problems, but it greatly helps. The MSP process is most useful for bringing 'sectors' together, agreeing on the way forward,"

> informant #7 – governmental official, Latvia, pc December 17, 2021

"There ever cannot be a situation where everybody is happy; it's impossible. Somebody will always be unhappy or kind of sad about the final result. Somebody will always say that it's bad or it's not enough,"

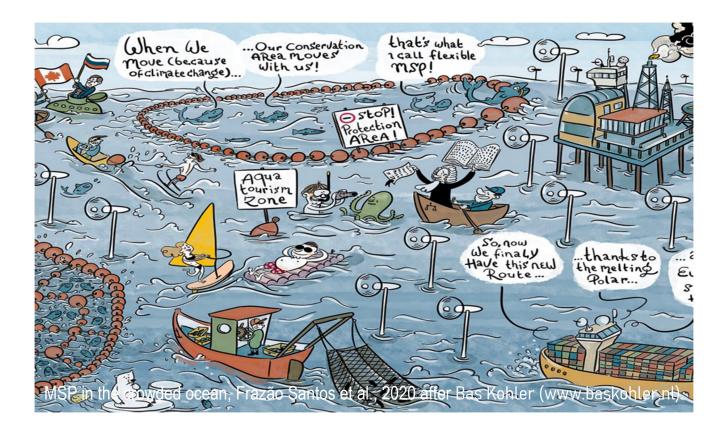
"From our point of view, we think what [the stakeholders] were discussing with us, we considered it, and we were using that information. Of course, some of the participants thought it was not enough; they were willing to affect more, but, of course, when we have 10 or 11 different sectors involved, they cannot have all their opinions taken into the plan. So, we have to make compromises and so on. We have to put all this together, so it might seem to some individual stakeholders that not all of what they were telling us, what we were discussing, that it's not visible in the plan. But that's normal planning process - to make compromises and put it all together,"

> informant #32 – regional official, Finland, pc, February 21, 2022

informant #22 – spatial planner, Estonia, pc, February 3, 2022

"MSP is an essential part of how you're managing a country's natural resources, taking geopolitical decisions. This is an essential part of it. But on the other hand, I also don't think regular people have any understanding or prerequisite for understanding this discussion. Everyone wants more renewable energy, just not in their backyard. And, of course, it has to be in someone's backyard, so someone is going to lose,"

informant #54 – business representative, Denmark, pc, April 5, 2022 • Nevertheless, MSP, as a planning tool, has its limitations. It can serve as a platform for dialogue. Still, it can only have the optimal solutions for some cases and only resolve some of the contemporary environmental, economic and social challenges.



"I think it is safe to say that an interest group may state their ideal solution, but very rarely is it possible to consider everything they wanted. So, it's always a compromise; it will always be something they didn't get. They see it differently. But this is just the reality of any plan that many times, it's the same that the plan that we made, nobody is really in favour of it because nobody got what they wanted 100%. So, in a way, I think there will always be some issues that have to be compromised on,"

informant #29 – spatial planner, Estonia, pc, February 17, 2022



- HELCOM-VASAB. 2016. Guideline for the implementation of ecosystem-based approach in Maritime Spatial Planning (MSP) in the Baltic Sea June. Available area. at: https://helcom.fi/media/documents/Guideline-for-the-implementation-ofecosystem-based-approach-in-MSP-in-the-Baltic-Sea-area\_June-2016.pdf
- EC. 2021. Guidelines for implementing an ecosystem-based approach in maritime spatial planning: including a method for the evaluation, monitoring and review of EBA in MSP. Available at: <a href="https://op.europa.eu/en/publication-detail/-/publication/a8ee2988-4693-11ec-89db-01aa75ed71a1">https://op.europa.eu/en/publication-detail/-/publication/a8ee2988-4693-11ec-89db-01aa75ed71a1</a>

## 2. IV. STEPS OF THE MSP

"MSP does not lead to a one-time plan. It is a continuing, iterative process that learns and adapts over time."

UNESCO-IOC (Ehler and Douvere), 2009, p. 18.

"MSP is an ongoing process that might be never-ending. But I think that's how it should be because our world is never completed, but it's an ongoing process; that's how it works,"

informant #35 - regional official, Finland, pc, February 24, 2022

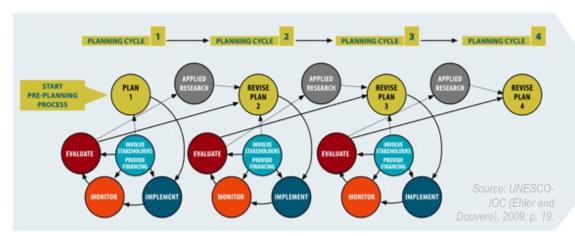


- A thorough marine area or ecosystem spatial plan that steers the entire marine system in the direction of a "Future Vision" is the main output of MSP.<sup>1</sup>
- The MSP cycle, which constitutes creating a plan, "involves a series of basic steps that are likely to be generic to different situations." This is divided into three to four continuing phases: planning and analysis in the first phase, which can be integrated with MSPlan development; implementation in the second phase; and monitoring and assessment in the third and fourth phases.
- Recital 18 of the MSP Directive states that MSP "should cover the full cycle of problem and opportunity identification, information collection, planning, decision-making, implementation, revision or updating, and the monitoring of implementation."
- MSP is thus inherently a cyclical and adaptive process, which are its main characteristics (see Figure 1. The continuing MSP cycle).



**IMPORTANT.** "Consequently, monitoring and evaluation lead to the 'overall comprehensive evaluation and subsequent plan revision' through adaptive management (cf. EC, 2010) for dealing with uncertainty and incorporating various types of change (Douvere and Ehler, 2011) and accordingly ensuring the flexibility of the plans (cf. Maes, 2008)."

Direct quotation from source: Neimane, 2020a, p. 40.



### The continuing MSP cycle.

<sup>&</sup>lt;sup>1</sup> Neimane, 2020a after Ehler, 2014b; Ehler and Douvere, 2007; see also Cieślak 2009; Maes, 2008; <sup>2</sup> Gilliland and Laffoley 2008, p. 795; <sup>3</sup> Neimane, 2020a after Douvere, 2008; Ehler and Douvere, 2007, 2009; Heinrichs and Gee, 2018; Varjopuro et al., 2019; <sup>3</sup> informant #8, Germany, pc, December 22, 2021.

"We made our first kind of pre-evaluation on how to evaluate and monitor, and we have published reports of the procedure of what we have to think, and we have these impact paths, we have to evaluate how the implementation goes and what is the role of MSP what is in our hands and what happens in other processes under sectoral policies and so on. We have the basic understanding and the first project report describing this issue, the monitoring and evaluation. And also, we have identified some indicators. If I recall correctly, it was between 300 and 400 indicators; when you hear the number, you understand that we can't and shouldn't use all those indicators. And this means that we will start a monitoring and evaluation project, so to say, with the stakeholders to pound together with them on what indicators are needed. Who is responsible, and what are the kind of steering impact paths? What other indicators should we use? And this is something that we should do together with the stakeholders that they tell us this information. As I mentioned earlier, it is so that in many cases, also in this case, we have the expertise in our planners to decide by ourselves what indicators we'll use. It's not the issue that we don't know. But we understand that by engaging the stakeholders, they build ownership towards our plan and the whole monitoring and evaluation system. And when they are engaged, they are more willing to implement the plan. So, it's a very strategic movement from us to involve and engage all stakeholders and let them feel that they give us the information. So, they are in charge of what we use. So, we must try to build some psychological ownership towards something so that people feel that they have the power of things, and they have all this knowledge, and they also put resources, you know, they give their time for us and so on. So, they have this understanding that this is their product. So, this is why we will do this together with stakeholders. [..] But, of course, we will define what we will evaluate. We will evaluate the impact paths: the impact of the plan and map markings, whether it happened as we wished, and the indirect steering impact. Then we will have this yearly monitoring when we use these indicators to follow the situation. And then another evaluation comes along the second time when we update our plans. So, this goes hand in hand in a way."

> informant #34 – regional official, Finland, pc, February 24, 2022

• MSP is a broader concept, while the plan is the result of this process and only one of its elements (see Table 1. The main steps of the MSP in creating an MSPlan).

Table 1. The main steps of the MSP in creating a MSPlan		
No.	UNESCO-IOC (Ehler and Douvere), 2009	UNESCO-IOC/EC, 2021
1.	Identifying need and establishing authority	Setting the scene
2.	Obtaining financial support	Designing the planning process
3.	Organizing the process through pre-planning	Assessments for planning
4.	Organizing stakeholder participation	Developing, endorsing and approving the spatial plan
5.	Defining and analyzing existing conditions	Enabling implementation of the spatial plan
6.	Defining and analyzing future conditions	Monitoring, evaluation and adaptation
7.	Preparing and approving the spatial plan	
8.	Implementing and enforcing the spatial plan	
9.	Monitoring and evaluation performance	

Source: author's elaboration after UNESCO-IOC (Ehler and Douvere), 2009; UNESCO-IOC/EC, 2021.

Although monitoring and evaluation methodology is considered one of the biggest challenges<sup>1</sup> (see also <u>"6. I. Challenge No. 1: Implementation"</u> in this manual), current practice shows that combining the quantitative and qualitative approaches works most successfully.<sup>2</sup> During the evaluation process, along with the evaluation of environmental, economic and social data<sup>3</sup>, it is essential to consider what has altered in addition to the available facts and data.<sup>4</sup>

<sup>&</sup>lt;sup>1</sup> informants #55&#56 – governmental officials, Poland, pc, March 29, 2022; <sup>2</sup> informant #8, Germany, pc, December 22, 2021; informant #34 – regional official, Finland, pc, February 24, 2022; informant #35 – regional official, Finland, pc, February 24, 2022; informant #37 – MSP researcher, Estonia, pc, March 7, 2022; informant #43 – governmental official, Denmark, pc, March 14, 2022; informant #57 – governmental official, Poland, pc, March 30, 2022; <sup>3</sup> informant #3, Germany, pc, December 3, 2021; <sup>4</sup> informant #8, Germany, pc, December 22, 2021.



IMPORTANT. "MSP 'conducted in a continuous and adaptive manner encompassing monitoring and evaluation' is one of the common denominators for MSP in Europe and also beyond (Ehler et al., 2019). Reference to adaptive management is included in the set of common principles underlying MSP policy in the BSR (CEC, 2008: Principle 8, 10; HELCOM-VASAB, 2010: Principle 10). Also, the MSF Directive and the MSP Directive inter alia set the framework for monitoring. In the first case, it is addressed through rules determining the obligation of the Member States to establish and implement coordinated monitoring programmes (see Art. 11). In the second case, the monitoring of implementation as a necessary step of the MSP is outlined (Recital 18), and a minimum requirement is established for review of MSPlans at least every ten years (Art. 6(3))."

Direct quotation from source: Neimane, 2020a, pp. 40–41.



**APPROACH.** "The framework is that we must update it within ten years and create an entirely new plan. But until then, we can make smaller changes to the plan, for instance, take out the zone, put in a new zone, or change one of the zones. Every year, if necessary, we can make these smaller changes, so that is how we have tried to make it adaptable because, as we've experienced during this planning process, changes keep happening at sea. It's happening very rapidly right now. I think it's essential to have a framework that allows these small alterations without making an entirely new plan every time,"

informant #43 – government official, Denmark, pc, March 14, 2022.

- One of the most important components of the MSP is stakeholder involvement "itself a cross-cutting element that can occur throughout MSP processes" (see also <u>"5. III. Example No. 3: Stakeholder involvement"</u> and <u>"6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders"</u> in this manual).
- In this regard, two terms are used in the MSP Directive: "public participation" and "stakeholder involvement."

<sup>&</sup>lt;sup>1</sup> Li and Jay, 2020.

- According to the MSP Directive's Article 6.2(d), stakeholder participation is one of the MSP's minimal requirements.
- Article 9.1 of the Directive mandates that Member States establish procedures for public participation by informing all interested parties and consulting relevant authorities and stakeholders, as well as the general public, early in the development of MSPlans.

"Regional plan is legally binding, but the MSP is not. So, there was a lot of discussion on the role of the MSP if it's not a legally binding plan. But we see that the value comes from participation, and somehow the participation process was such an important part of the planning that we more or less can say that participation was the whole idea of the process. The plan is more of an illustration of the outcomes; it's unimportant. But the whole process itself, it's the key. Now the people and the sectors, and the stakeholders, they more or less know each other. If they have new questions or need more discussions, they know and can contact each other more easily. So, that is the benefit of the MSP process. If they now start to do some more new projects or some new investments or something, they know the neighbours or how to say. So, they know who to contact and d a little more about the needs and restrictions or what is essential for each body. They know that already. So, we think that the cooperation between them would be easier nowadays. Whether the MSP is good or not, it is not so important for the stakeholders. Participation is essential, or it's the whole heart of the process. And it was a perfect reason to do it because we could get so many stakeholders, participants, and people around the tables to discuss with each other freely. And then share their views and share their needs. And we still have all the information; we still have it on the Internet, and we were building a vision for our sea areas. So, we have a lot of information there from different sectors. It doesn't necessarily show or isn't necessarily visible on the maps or MSP plan itself, but it is in the background. MSP has been a learning process, collecting and sharing information with as many participants or stakeholders as possible. The importance of this stakeholder involvement, the importance of the people talking to each other that is the key we see in our MSP."

> informant #34 – regional official, Finland, pc, February 24, 2022

"It is also one of the principles of marine planning that it is an adaptive process. We are constantly acquiring new knowledge, and that plan needs to be updated. Its approaches and data are also new. It's not like the job is done and we're fine now. It's really a continuous process. Some moments when the stamp is put: this is what we have now, what we are guided by, but the process as such does not stop,"

"In any case, I would expect the MSPlan to be quite breathy so that it can actually be used as a guideline and not just as a rough visual material: tick off, hey, where we've done, everything is cool, we marked the places for wind farms, we marked the places for nature conservation, and further we put it on the shelf. It shouldn't be like that."

informant #13 – spatial planner, Latvia, pc, January 20, 2022 informant #47 – business representative, Latvia, pc, March 22, 2022



EXPERIENCE GAINED. "What is allowed for now provides 100% certainty. In principle, there is, of course, legal trust. We are counting on that. It's just that the problem is with the changes that happen independently of us. For example, suppose new norms are adopted on protective belts on their expansion. In that case, the question is whether someone has already planned something there, whether it complicates something... in this sense, our marine planning is not static. This is one of the nuances. But what's planned... let's say if someone has applied for a license area now, they can count on that in that license area they can, especially if they go through the whole process, they can count on at least getting to the environmental impact assessment unequivocally. Instead, I would say that we could expand or have something new in the planning, not so much maybe change the existing things,"

informant #7 – governmental official, Latvia, pc December 17, 2021



"In the Baltic, I think, there's always been this sense: we're in this together; we must develop a common vision for the whole Baltic Sea. As a result, in the Baltic, they have many visions, many sorts of joint platforms, I would say, to bring people together around the sea,"

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

"The planning community in the Baltic Sea Region we are quite connected, and there is a very active exchange of experiences all the time. We have a kind of community where we inspire and learn from each other and also collaborate with HELCOM, VASAB, and MSP Working Group,"

informant #13 – spatial planner, Latvia, pc, January 20, 2022

## 3. I. BALTIC SEA REGION (BSR)

- The Baltic Sea is the youngest sea on the planet, almost completely enclosed, in some places close to arctic conditions. It is shallow (average of about 50 meters and maximum of about 460 meters) compared to other European regional seas and one of the world's largest reservoirs of salty water.
- The area of the Baltic Sea reaches almost 400,000 km<sup>2</sup>.
- The Baltic Sea is home to unique ecosystems. Still, its condition is threatened and degraded by the dense population in the region and very intensive use of the sea, loss of biodiversity, invasive alien species and climate change, as well as eutrophication, algal blooms, overfishing, increased pollution from maritime transport, pharmaceuticals funds and especially plastic waste, including from land.
- As the distance between opposite shores is, on average less than 100 nautical miles, the surface of the Baltic Sea, in terms of jurisdiction, consists of national waters and the EEZ, with no high seas between them.<sup>1</sup>
- The Baltic Sea's complex nature, peculiarities and challenges also create opportunities for the region. For example, the fact that the sea is semi-enclosed and surrounded by EU member states creates unique preconditions for regional cooperation.
- This region is a complex combination of national, international, European and transnational management measures in the context of sustainable development.<sup>2</sup>



**DEFINITION.** The Baltic Marine Environment Protection Commission (Helsinki Commission) administers the Convention on the Protection of the Marine Environment of the BSR and, at the same time, acts as an environmental policy platform at the regional level since 1974 to protect the Baltic Sea environment. HELCOM includes Denmark, Estonia, Latvia, Lithuania, Poland, Finland, Germany and Sweden, the EU and Russia.

Source: Liene Gaujeniete, EUSBSR Policy Area "Spatial Planning" coordinator (VASAB Secretariat, 2021c).

<sup>2</sup> Neimane, 2023 after Kern, 2011 and Söderström et al., 2015.

<sup>&</sup>lt;sup>1</sup> Neimane, 2023 after Backer, 2015; EC, SWD(2014) 167 final; EC, COM(2009) 248 final; n.d.b; Söderström et al., 2015;

- In this sense, macro-regional cooperation tools such as the EU Strategy for the Baltic Sea Region (EUSBSR, adopted in 2009) and its action plan and the possibilities offered by regional networks, in particular, have been of considerable importance, as well as the initiatives of the Baltic energy market interconnection plan must also be taken into account in the broader context of MSP.<sup>1</sup>
- In the action plan of the EUSBSR renewed in 2021, "Spatial planning" is included as one of the 44 political areas within which coordinated MSP throughout the Baltic Sea is envisaged as an activity.
- Macro-regional networks are regional spatial planning coordinators intergovernmental organisations, such as the Baltic Marine Environment Protection Commission (HELCOM) through its Action Plan and Vision and Strategies around the Baltic Sea (VASAB), for which MSP has been one of the priorities since 2001.<sup>2</sup>
- As a result, The BSR is among "the most active forerunners in terms of MSP enhancement and practical advancement," and the development of MSP traditions.



**DEFINITION**. Vision and Strategies around the Baltic Sea (VASAB) is an intergovernmental network founded in 1992 and includes the cooperation of ministers responsible for spatial planning and development in the countries of the Baltic Sea region. Its main strategic document is VASAB's Long-Term Perspective for Territorial Development in the Baltic Sea Region.

Source: Alda Nikodemusa, Head of VASAB Secretariat (VASAB Secretariat, 2021d).



**APPROACH.** In 2010, HELCOM and VASAB created a special MSP Working Group, which has developed several strategic documents, such as MSP principles, MSP roadmap and MSP guidelines.

<sup>&</sup>lt;sup>1</sup>Neimane, 2023 after EC, COM(2009) 248 final, COM(2012) 128 final; EC / Denmark, Germany, Estonia, Latvia, Lithuania, Poland, Finland, Sweden, 2009, 2015; EUSBSR, n.d; Westholm, 2018; <sup>2</sup>Wismar Declaration, 2001; <sup>4</sup> Zaucha, 2014b, p. 5; <sup>5</sup> Neimane, 2023 after Cieślak, 2009.



- HELCOM-VASAB. 2010. Baltic Sea Broad-Scale Maritime Spatial Planning (MSP) Principles. Available at: <a href="https://helcom.fi/wp-content/uploads/2019/10/HELCOM-VASAB-MSP-Principles.pdf">https://helcom.fi/wp-content/uploads/2019/10/HELCOM-VASAB-MSP-Principles.pdf</a>
- HELCOM-VASAB. 2016. Guideline for the implementation of ecosystem-based approach in Maritime Spatial Planning (MSP) in the Baltic Sea area. Available at:
   <a href="https://helcom.fi/media/documents/Guideline-for-the-implementation-of-ecosystem-based-approach-in-MSP-in-the-Baltic-Sea-area\_June-2016.pdf">https://helcom.fi/media/documents/Guideline-for-the-implementation-of-ecosystem-based-approach-in-MSP-in-the-Baltic-Sea-area\_June-2016.pdf</a>
- HELCOM-VASAB. 2021. Regional Maritime Spatial Planning Roadmap 2021–2030. Available at: <a href="https://helcom.fi/wp-content/uploads/2021/10/Regional-Maritime-Spatial-Planning-Roadmap-2021-2030.pdf">https://helcom.fi/wp-content/uploads/2021/10/Regional-Maritime-Spatial-Planning-Roadmap-2021-2030.pdf</a>

## 3. II. DENMARK: THE DANISH MSP SYSTEM



- 1. MSP title: Denmark's maritime spatial plan
- Spatial MSP coverage: Entire sea waters under Danish jurisdiction
- 3. Maritime bordering countries: DE, NO, SE
- 4. Sea area: 105,000 km<sup>2</sup>
- 5. Length of coastline:≈7 300 km (with offshore islands), ≈1 700 km (mainland)
- 6. Competent authority: Danish Maritime Authority
- 7. MSP legislation in place: 2016
- 8. Planning started: 2017
- 9. MSP adopted: 2021

- 10. Parts of the plan: One
- 11. Planning type: National
- 12. Scale: Adjustable
- 13. Perspective of the plan: N/A
- 14. MSP review period: 10 years
- 15. Action plan of MSP: No
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: No
- 20. Digitisation of the plan in an accessible format: https://havplan.dk/en/page/info
- 21. Other MSPlans in force: No

 The Danish MSPlan is made at the national level and was issued as an executive order digitally in 2021, being binding to all Danish authorities.<sup>1</sup>



### **Main MSP LEGISLATION:**

- Maritime Spatial Plan Act (2016)
- Marine Strategy Act (2016)
- Planning Act
- However, on March 31, 2021, a six-month public consultation on the MSPlan and the SEA began. It finished on September 30, 2021.



**EXPERIENCE GAINED:** about the manner of the adoption of the MSPlan. View No. 1. "There was stakeholder involvement, a few meetings where stakeholders were just informed about how it was going to be, and they had a possibility for, you know, coming up with views. But to be honest, those views were not... They were used to some degree, but not very much, because the process was so mature at that point. So, after the plan was published, there was a lot of debate, and there is still a lot of debate, and actually, as we speak, there are political negotiations in the Parliament about the plan. So, the plan will probably be adjusted in some way."

informant #64 – MSP researcher, Denmark, pc, May 12, 2022



**EXPERIENCE GAINED: about the manner of the adoption of the MSPlan. View No. 2.** "The plan was agreed upon, but not as a final one. It was decided to get it into work so that it wouldn't be allowed to do anything contradictory to the plans, but we don't see it as that. We don't see it as the final plan, and the critics first came up with the lack of data protection and environmental protection. That was the reason that it was, you could say, it was sent back to almost zero, and now they try to make a new plan on an administrative level."

informant #65 – NGO representative, Denmark, pc, June 16, 2022.

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022a; informant #43 – governmental official, Denmark, pc, March 14, 2022; informant #64 – MSP researcher, Denmark, pc, May 12, 2022.

- Considering the controversies caused partially by the way the MSPlan was adopted, it
  is expected that in the subsequent planning cycles, the MSPlan will be sent into public
  consultation before the adoption.<sup>1</sup>
- Denmark's 98 municipalities with the terrestrial planning authority can plan for specific uses in the coastal waters.<sup>2</sup>



"Some people criticise MSP for being very economical, right? Still, it does link to this Marine Strategy Framework Directive, and that one also requires that we make plans to keep the water level within a certain quality, right? So, of course, they should collaborate, and there's also been collaboration in Denmark between these two instruments,"

informant #52 – MSP researcher, Denmark, pc, March 24, 2022

<sup>&</sup>lt;sup>1</sup> informant #43 – governmental official, Denmark, pc, March 14, 2022; <sup>2</sup> European MSP Platform, 2022a.

 During the elaboration of the MSPlan, the synergies and coherence have been searched between MSP and the Danish Maritime Strategy under the remit of the Ministry of Environment and Food of Denmark and the Agency for Water and Nature Management. In 2019, the Danish Maritime Strategy II was published.<sup>1</sup>



**BEST PRACTICE EXAMPLE.** Twelve maritime agencies from Denmark are represented in the working group on MSP.<sup>1</sup> "Through MSP, you get a comprehensive overview of the sea area's activities and uses. That's a perfect thing. Even though the Ministry of Business is in charge, many other ministries are involved. So, I think, for the first time, MSP makes a more coordinated approach to the use of the maritime space in Denmark,"

informant #64 – MSP researcher, Denmark, pc, May 12, 2022.

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022a.

# 3. III. ESTONIA: CHARACTERISTICS OF THE ESTONIAN MSP SYSTEM



- 1. MSP title: Estonian Maritime Spatial Plan
- Spatial MSP coverage: Entire sea waters under Estonian jurisdiction, excluding those for which plans have already been adopted
- Maritime bordering countries: FI, LV, RU
- 4. Sea area: 36 500 km<sup>2</sup>
- Length of coastline: ≈ 3 800 km (with islands), ≈1 200 km (mainland)
- 6. Competent authority: Ministry of Finance
- MSP legislation in place: 2012 (pilot plans), 2015 (national MSP)
- 8. Planning started: 2017
- 9. MSP adopted: 2022
- 10. Parts of the plan: One

- 11. Planning type: National
- 12. Scale: Adjustable<sup>1</sup>
- 13. Perspective of the plan:15 years
- 14. MSP review period: 5 years
- 15. Action plan of MSP: Yes
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: No
- 20. Digitisation of the plan in an accessible format:
  <a href="http://mereala.hendrikson.ee/kaardirakendus-en.html">http://mereala.hendrikson.ee/kaardirakendus-en.html</a>
- 21. Other MSPlans in force: Yes, two pilot plans for Hiiu Island (2016) and Pärnu Bay area (2017)

<sup>&</sup>lt;sup>1</sup> The activities are not scaled down in depth in the MSPlan, which is more concerned with the principles of spatial development. European MSP Platform, 2022b.

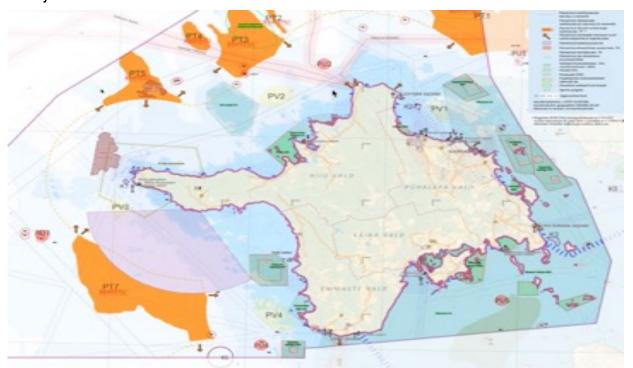
• First, two county-level plans were made: Hiiumaa (2012-2016) and Pärnumaa (2012-2017). Methodological resources for the MSP were created concurrently. The other parts of the Estonian MSP were made for 2017–2022.



### **Main MSP LEGISLATION:**

- Planning Act (2015)
- Order of the Government (2012)\*
- The Environmental Impact Assessment and Environmental Management System Act (2005)
  - \* This Order forms the foundation for the two pilot MSPlans.

 On August 8, 2018, the National Court of Estonia revoked the designation of offshore wind energy regions in the Hiiu MSPlan. The Hiiu MSPlan is still relevant about other subjects.<sup>1</sup>



Pilot plan for Hiiumaa island.

Source: Hiiu maakonnaga piirneva mereala maakonnaplaneering [County planning of the sea area bordering Hiiu county]. Available at: <a href="https://maakonnaplaneering.ee/maakonna-planeeringud/hiiumaa/hiiumereala-maakonnaplaneering/">https://maakonnaplaneering.ee/maakonna-planeeringud/hiiumaa/hiiumereala-maakonnaplaneering/</a>;

<sup>&</sup>lt;sup>1</sup> informant #20 – governmental official, Estonia, pc, February 1, 2022; informant #12 – business representative, Estonia, pc, January 19, 2022; National Court of Estonia. Case number 3-16-1472. August 8, 2018. Available at: <a href="https://www.riigikohus.ee/et/lahendid?asjaNr=3-16-1472/92">https://www.riigikohus.ee/et/lahendid?asjaNr=3-16-1472/92</a>; European MSP Platform, 2022b.



**EXPERIENCE GAINED:** About abolishing offshore wind energy sites in the zoning of the Hiiu pilot plan. "These texts [on the map] "KEHTETU" mean: it's cancelled. Very shortly, what is the background – on [EIA], there was actually written about the cables that are going to the mainland that these cables are going through Natura 2000 area; you can't go to the mainland without going through the Natura 2000 area. In [EIA], it was said that you couldn't exclude – say that there is no impact for Natura 2000 area. It was the reason why State Court said that there must be no influences for Natura 2000 area, and if the planning says that maybe there are some influences, then you must remove this part from the plan. It is shortly why these areas are cancelled for today,"

informant #14 – spatial planner, Estonia, pc, January 21, 2022.

 The expertise gained from creating the pilot MSPlans for the marine areas of Hiiu and Pärnu counties' coastal areas served as the foundation for creating the Estonian MSP at the national level.<sup>1</sup>

"These pilot plans were initiated because we wanted to see how we can learn and have this first experience from planning the sea because, in Estonia, it's the first time we're doing this. We had those two places we saw that there are a lot of new interests also. At the time that we initiated these two plans, then we already had an interest in the offshore wind there and then the interest in aquaculture,"

informant #20 – governmental official, Estonia, pc, February 1, 2022 "During 10 years (although it has not been very fast), the preparation of the MSP has been systematic and consistent. In all MSP projects, there has been very extensive involvement of interest groups. The MSP has been broad-based. Despite the opposition of some interest groups, the strategic needs of society have been taken into account, and specific areas have been defined for offshore wind farms. Difficult and not comfortable strategic decisions were made,"

informant #12 – business representative, Estonia, pc, January 19, 2022

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022b.

 Nevertheless, in the mentioned court ruling, several examples of good practice emerge from the current national MSP practice. The experience to date (including the one with proceedings) ensured that the approach in which MSP was carried out at the national level was carefully considered, especially regarding the designation of offshore wind areas.<sup>1</sup>



**BEST PRACTICE EXAMPLE.** "The first step [in the national MSP process] that the planners did is ordering the scientific reports on where the wind is, basically; where are very strong winds; where is a good possibility to build an offshore wind park. The next step was that they excluded all the protected areas that were already there. And then next step was also to consider migration routes for marine mammals, like seals, mainly birds and bats. And this is one thing that we weren't at first delighted with this process because there wasn't enough data to know where exactly the birds are migrating. And for that, they ordered new research and thanks to that, I think, today there's a fairly good understanding of where birds migrate, where mammals migrate. Next to that also was the spawning area for fish, which was then excluded. And also, for socio-economic or social reasons, the offshore wind areas were shifted further from the coast so that it won't be that big impact visually. So, step by step, the offshore wind area, basically, got smaller and smaller, but by that also like all stakeholders had their say; what do they think and where we should still get,"

informant #28 - NGO representative, Estonia, pc, February 16, 2022.

• The Estonian MSPlan lays out guidelines and conditions. It is preferable to adhere to the guidelines based on a long-term vision and the requirements for the multiuse of the area. Deviations from the guidelines must be made in consultation with other involved or impacted parties to ensure the planning solution is fully implemented. The conditions are requirements established by the plan, and adherence to them is required.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> informant #28 – NGO representative, Estonia, pc, February 16, 2022; <sup>2</sup> European MSP Platform, 2022b.



"A particular outcome of Estonian MSP, it's the way the final plan is written, which I really enjoy because it's not just like a book of principles, but it clearly explains how some principles have developed, what is the development behind them – where did they come from, who presented them, what was done with them. If somebody presented the idea – how was it processed?

Because it kind of answers the question – why? – very well. That's the excellent outcome of the MSP process,"

informant #22 – spatial planner, Estonia, pc, February 3, 2022



BEST PRACTICE EXAMPLE. "Because the Estonian MSP is a regulative plan and binding, we saw that we have to have some distinction between the suggestions that the plan makes and the stringent conditions. That's why Estonian MSP has guidelines for every sea use that are like soft suggestions to give different users the idea of how they can exist together and the combined use meaning. And then we have strict conditions that must be considered when applying for a license in the sea or trying to do something in the 'sea. And I think this is also something different or good practice because we have had a' 'lot of feedback from this approach that it was straightforward to use and it's very understandable,"

informant #20 – governmental official, Estonia, pc, February 1, 2022

- In Estonia, the sea is not subject to municipal planning. Only the state has ownership of the sea, and only the state has the authority to plan it. The planning of the coastline, starting from the sea line, is the competence of the municipalities.<sup>1</sup>
- However, local governments must consider the plan's requirements while making plans for terrestrial regions.<sup>2</sup>
- At the same time, MSPlans do not impose any conditions on the lands that are legally enforceable.<sup>3</sup>

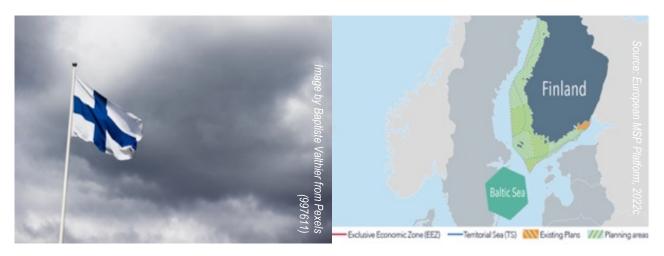


BEST PRACTICE EXAMPLE. "We gave suggestions and guidelines to local municipalities' comprehensive plans. And right now, many municipalities are doing their plans, and when they're doing it, everybody has to have an agreement from the Ministry of Finance. And when they distribute their solutions to us to go through with it, we can see how the land-sea interactions and our ideas in the MSP are integrated into the land plans. And if they are not, we can help them integrate these things. So, we are in close collaboration."

informant #20 – governmental official, Estonia, pc, February 1, 2022.

<sup>&</sup>lt;sup>1</sup> informant #20 – governmental official, Estonia, pc, February 1, 2022; European MSP Platform, 2022b; <sup>2,3</sup> European MSP Platform, 2022b.

## 3. IV. FINLAND: THE FINNISH MSP SYSTEM



- 1. MSP title: Maritime Spatial Plan 2030 for Finland
- 2. Spatial MSP coverage: Entire sea waters under Finnish jurisdiction, excluding waters around Åland Islands
- Maritime bordering countries: SE, LV, RU
- 4. Sea area: ≈ 81 600 km<sup>2</sup>
- 5. Length of coastline:≈ 3 800 km (with islands)
- 6. Competent authority:
  Ministry of Environment
- MSP legislation in place:
   2016
- 8. Planning started: 2016/2017
- 9. MSP adopted: 2020
- 10. Parts of the plan: Three, combined into one plan
- 11. Planning type: Regional

- 12. Scale: Adjustable
- 13. Perspective of the plan:12 years
- 14. MSP review period: 10 years, practically 6 years
- 15. Action plan of MSP: No
- 16. Nature of MSP: Advisory
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: Yes
- 20. Digitisation of the plan in an accessible format:

  <a href="https://meriskenaariot.info/merialuesuunnitelma/en/suunnitelma-johdanto-eng/">https://meriskenaariot.info/merialuesuunnitelma/en/suunnitelma-johdanto-eng/</a>
- 21. Other MSPlans in force: MSPlan of Åland Islands (2021)

- MSP takes place at the national and regional levels in Finland.
- The exception is Åland Islands, a self-governing province and autonomous region with its own parliament and partly its own legislation. Both land use planning and also MSP is in its mandate. Planning for the sea areas, more specifically the common-water areas, is the responsibility of the government of land (planning sea-use recommendation). There are privately held water areas on land; in these places, the owner(s) may plan the sea uses as long as they comply with other applicable laws.<sup>2</sup>



### MAIN MSP LEGISLATION:

- Land Use and Building Act (2016)
- Water Act (1996) (Åland Islands)
- Although the competent authority in Finland is the Ministry of Environment, the three parts of the MSPlan is done by eight regions - Regional Councils.<sup>3</sup> The Finnish maritime area is divided into three planning areas to facilitate communication across the regions.<sup>4</sup>



BEST PRACTICE EXAMPLE. "Regional Council of Southwest Finland was chosen as the coordinator of the cooperation of regional councils. It coordinates the cooperation between the coastal regional councils. It's not the coordination group for planning; it's named a coordination group for cooperation, but there's a slight difference. Because all the regional councils are independent organisations, each council is planning itself. Coordination is more for the cooperation than planning itself,"

informant #36 – regional official, Finland, pc, February 28, 2022.

<sup>&</sup>lt;sup>1</sup> informant #27 – governmental official, Finland, pc, February 15, 2022; European MSP Platform, 2022c; <sup>2</sup> European MSP Platform, 2020c; <sup>3</sup> "A Regional Council is a statutory consortium of municipalities. It is responsible for regional development and for drafting regional land use plans. Councils are made up of politically selected representatives from the municipalities." European MSP Platform, 2022c; <sup>4</sup> informant #27 – governmental official, Finland, pc, February 15, 2022; informant #32 – regional official, Finland, pc, February 21, 2022; informant #34 – regional official, Finland, pc, February 28, 2022; European MSP Platform, 2022c.

"In Finland, regions make the MSP plan, not the state. We have three planning areas, but the plans are made together and combined into one plan in three sections,"

informant #35 – regional official, Finland, pc, February 24, 2022 "We say that there's one plan drafted in three parts,"

"We have already had this regional land use planning, so the regional land use plans cover the sea area partly. But if you look at the Finnish MSP, you can see that the Finnish land use planning covers all of the municipal areas, only not the EEZ, which is not part of any municipality. It was only the new planning area. So, these land use plans cover the sea area already, mostly. But, of course, when you're doing MSP, the starting point is different, and the objectives are different than in normal ordinary regional land-use planning. Also, Finnish MSP is not legally binding as the regional land-use plan is,"

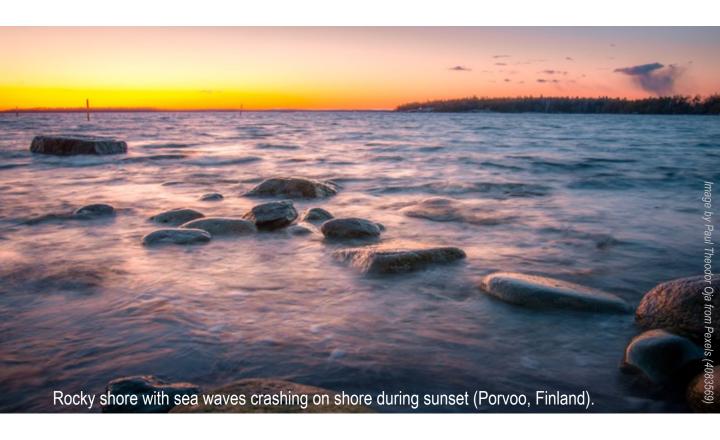
informant #27 – governmental official, Finland, pc, February 15, 2022

"The aim has been that we have one plan to be visualised as one plan, and we can say it's a Finnish MSP. It's a little bit complicated, but the purpose has been to produce one plan: we have done it in the regions, on the regional level,"

informant #36 – regional official, Finland, pc, February 28, 2022

informant #32 – regional official, Finland, pc, February 21, 2022

- The three planning areas in Finland are the Northern Bothnian Sea, Quark and Bothnian Bay drafted by the Regional Councils of Lapland, Oulu region, Central Ostrobothnia and Ostrobothnia; the Archipelago Sea and Southern Bothnian Sea drafted by the Regional Councils of Satakunta and Southwest Finland; and the Gulf of Finland drawn by the Regional Councils of Helsinki-Uusimaa and Kymenlaakso.<sup>1</sup>
- The competent authority provides general guidance and international cooperation with other countries.<sup>2</sup> It serves as the national focal point in this case.<sup>3</sup>
- Because the planning cultures of Regional Councils are different, the coordination group was set up to oversee their efforts. 4 Members of the group include officials from the Ministry of the Environment, Åland Islands, and coastal Regional Councils. 5



<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022c; <sup>2</sup> informant #27 – governmental official, Finland, pc, February 15, 2022; European MSP Platform, 2022c; <sup>3</sup> informant #34 – regional official, Finland, pc, February 24, 2022; <sup>4</sup> informant #34 – regional official, Finland, pc, February 24, 2022; <sup>5</sup> European MSP Platform, 2022c.

"The municipalities do only local plans." But regional councils - they are municipal organisations. Each municipality has to be part of a regional council. And then there are eight regional councils along the coast. They consist of several municipalities. But as the regions, they are responsible for drafting regional land use plans on their region, which is both land and maritime area. So, the municipalities are a powerful unit in Finland and have a planning mandate. The territorial waters belong to the area of the municipality, and that's why the sea area, the maritime area, also belongs to the regional council, which is formed of those municipalities; therefore regional council has the right to draft regional land use plans on the maritime area. And now, when we drafted this MSP legislation, we also gave regional councils a mandate to plan economic zones. That's why each region has the right to draft a maritime plan for its own territorial waters and economic waters. But what we say in our legislation is that it cannot do it alone, but it has to do it together with the neighbouring regional councils,"

"Now we have three applications to research wind energy development in the economic zone, and two of those areas are. In our MSP, we have zoned exactly 1 to 1 to those areas, but the third one is not. So it's possible to develop wind energy in other places also. And this is only theory because our plan, of course, exists there. It has been drafted in close cooperation with stakeholders. It also has its power because of that and because different sectors have been compiled or discussed how all these activities could fit the plan. So, it's one starting point for the other ministries. But because it's not binding, you cannot provide that the developer or the other ministries follow that plan. But, of course, we wish the plan existed, and they know that it has its effect because it's drafted in collaboration, and other sectors might not be so pleased if you are not following it. So it's a kind of agreement in a way,"

informant #27 – governmental official, Finland, pc, February 15, 2022 informant #27 – governmental official, Finland, pc, February 15, 2022

- The origins of the regional MSP in Finland can be found in old land use planning responsibilities. The regions already had a duty to plan the territorial seas under the remit of regional land-use plans, and those plans are also legally binding.<sup>1</sup> Regional land use plans can be compared to MSPlans because they include the territorial sea in their scope.<sup>2</sup>
- Regional land use plans are enforceable and serve as a manual for local governments to create local master plans.<sup>3</sup>
- The Finnish land-use planning hierarchy and methodology do not include MSP.
   MSPlans are generic, non-binding, strategic plans with indirect steering effects.<sup>4</sup>

"MSP also has a spatial plan map, but it describes more the possibilities. And the regional land-use plan is more strictly guiding. It's pointing out, for example, strict areas for windmills. But in the MSP, we're just pointing out areas suitable for wind energy production. It's more like cooperation and combining possibilities in MSP,"

informant #27 – governmental official, Finland, pc, February 15, 2022

"Another ministry is responsible for wind energy development and has to follow regional plans on territorial waters. It's impossible to make any wind energy development to other areas, to set such an area, which is not in the regional plan, but on the economic zone, there's only this MSPlan, and it's not binding. So it's a kind of recommendation; you don't necessarily have to follow it. So, it depends where the developers want to make the development, in what kind of areas they want to make studies, reservations and then development, as well as, on the Ministry of Employment and Economy,"

> informant #27 – governmental official, Finland, pc, February 15, 2022

<sup>&</sup>lt;sup>1</sup> informant #34 – regional official, Finland, pc, February 24, 2022; informant #35 – regional official, Finland, pc, February 24, 2022; informant #36 – regional official, Finland, pc, February 28, 2022; <sup>2, 3, 4</sup> European MSP Platform, 2022c; <sup>5</sup> informant #6 – MSP researcher, Sweden, pc, December 14, 2021.



**EXPERIENCE GAINED.** "I think it's more important to have an easier way to discuss different and difficult things in this process that doesn't lead to a legally binding plan, but to a strategical plan. So, we can try out different kinds of things and maybe stakeholders can more easily raise some more difficult questions to the conversation table than in a legally binding process,"

informant #35 – regional official, Finland, pc, February 24, 2022.

 Overall, the Finnish MSP system is similar to the one in Sweden and, in a way, in Germany.<sup>1</sup>



- Maritime Spatial Plan for Finland 2030. 2020. Available at: <a href="https://meriskenaariot.info/merialuesuunnitelma/en/merialuesuunnitelma-english/">https://meriskenaariot.info/merialuesuunnitelma/en/merialuesuunnitelma-english/</a>
- Haapasaari, P., & van Tatenhove, J.P.M. 2022. A Finnish regional non-binding MSP approach: What are the consequences for integrating Blue Growth and GES? *Marine Policy* 141, 105101. <a href="https://doi.org/10.1016/j.marpol.2022.105101">https://doi.org/10.1016/j.marpol.2022.105101</a>

## 3. V. GERMANY: THE GERMAN MSP SYSTEM



- 1. MSP title: Maritime Spatial Plan for the German EEZ in the North Sea and Baltic Sea
- 2. Spatial MSP coverage: German EEZ
- 3. Maritime bordering countries: DK, NL, PL, SE, UK
- Sea area: ≈ 15 400 km² (Baltic Sea), ≈ 41 000 km² (North Sea)
- 5. Length of coastline: 3 700 km (North Sea [1 600 km) and Baltic Sea [2 100 km]).
- 6. Competent authority: Federal Ministry for Housing, Urban Development and Building
- 7. MSP legislation in place: 2004, 2016/2017
- 8. Planning started: 2005 (first), 2019 (second)
- 9. MSP adopted: 2021
- 10. Parts of the plan: Two

- 11. Planning type: National and regional
- 12. Scale: Adjustable
- 13. Perspective of the plan: 10 years
- 14. MSP review period: 10 years
- 15. Action plan of MSP: No
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: Existing with other MSPlans in force
- 18. Adoption (generation): Second
- 19. Maritime strategy: Yes
- 20. Digitisation of the plan in an accessible format:

  <a href="https://www.geoseaportal.de/m">https://www.geoseaportal.de/m</a>
  <a href="mailto:apapps/resources/apps/meeres-nutzung/index.html?lang=en">apapps/resources/apps/meeres-nutzung/index.html?lang=en</a>
- 21. Other MSPlans in force:
  MSPlans of three federal
  states for the territorial sea
  areas

In Germany, MSP is taking place both at the national and regional level.



### Main MSP LEGISLATION:

- Spatial Planning Act ("Raumordnungsgesetz"/ROG)\*
- Federal Maritime Responsibilities Act
- Federal Mining Act
- Renewable Energy Sources Act
- Energy Industry Act
- Federal Nature Conservation Act
- Federal Water Act

\* Besides ROG, each federal state's specific spatial planning law serves as the legal foundation for MSPlans.1

"Germany is called like the Federal Republic of Germany because we have like 16 federal states and one of those is Schleswig-Holstein, the same as, for example, Bavaria or Hamburg. Some cities are also federal states. like Hamburg, Berlin and Bremen. And ves. we have 16 of those states. And the one with the most coastlines is Schleswig-Holstein, but also Niedersachsen's [Lower Saxony] and Mecklenburg-Vorpommern's coastlines. Niedersachsen [Lower Saxony] is only on the North Sea, Mecklenburg-Vorpommern - only on the Baltic Sea. Schleswig-Holstein has both coasts."

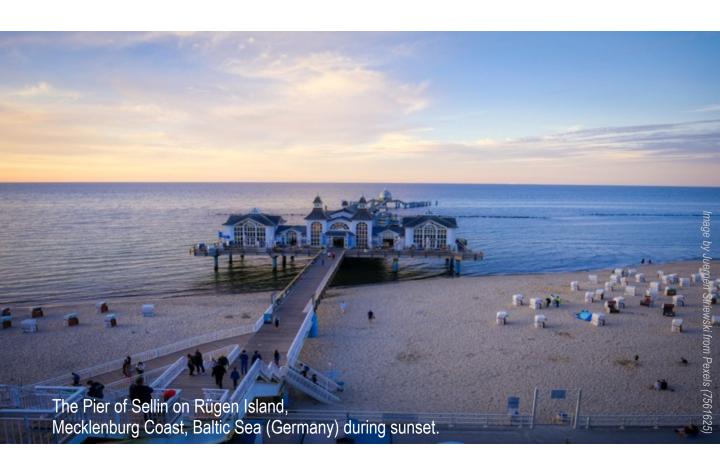
> informant #58 – project manager, Germany, pc, March 31, 2022.

"The planning system is organised in such a way that there is the subsidiarity principle so that the plans have to interconnect. So, the state-level plans cannot contradict the federal-level plan. They have to kind of dovetail like that. They can't be contradictory, and if you read the legislation, the legal basis is very similar for all of the levels of planning in Germany. The object is always similar, and the tools are also very similar, so, for example, you can have priority areas or reservation areas. That makes sure that planning is integrated in a sense and that you don't have one state doing something completely different to all the rest of the Republic,'

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

<sup>&</sup>lt;sup>1</sup> European, MSP Platform, 2022d.

- An overarching development concept for the sea, which serves as the strategy for an integrated German maritime policy ("Entwicklungsplan Meer Strategie für eine integrierte deutsche Meerespolitik"), was released by the Federal Government in 2011.<sup>1</sup>
- The territorial sea areas are under the jurisdiction of the three coastal federal states (Länder).
- These three federal states are Lower Saxony, Schleswig-Holstein, and Mecklenburg-Vorpommern) which have the planning authority in these areas.<sup>2</sup>
- As a result, there are three existing regional MSPlans in Germany. They cover both the land and the territorial sea and are integrated into that sense.<sup>3</sup>
- Germany is the most experienced country in the BSR in adopting the MPSPlans at federal and regional levels.



<sup>&</sup>lt;sup>1,2</sup> European, MSP Platform, 2022d; <sup>3</sup> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022.

- At the federal level, Germany adopted its second-generation MSPlan in 2021 (the first-generation MSPlan was adopted in 2009). It combines EEZs of both the Baltic Sea and the North Sea.
- The first MSPlans provided a solid framework for the diverse uses in the EEZ and remarkably influenced the growth of offshore wind energy through sectoral planning.<sup>1</sup>
- Although the competent MSP authority is the Federal Ministry for Housing, Urban Development and Building Ministry, the responsibility to establish MSPlans in Germany lies with the Federal Maritime and Hydrographic Agency<sup>2</sup> at the federal level.
- The state development plan, including shares of the German territorial sea in the North and the Baltic Sea, of Schleswig-Holstein came into effect in 2010 and its revised version – in 2021. The responsible institution for MSP is the State Chancellery.<sup>4</sup>



**BEST PRACTICE EXAMPLE.** "Objectives of maritime spatial planning in Germany are as follows:

- binding requirements for the development, organisation and safeguarding of space;
- weighed up by the spatial planning authority (decision on priority has been made);
- translating into priority areas where uses and functions incompatible with the priority function or use are excluded.

Principles of [MSP] in Germany include:

- guidelines for the development, organisation and safeguarding of space;
- if not conclusively weighed up, must be considered in decisions;
- areas can translate into reservation areas where uses or functions are given a particular weight when weighing them up against competing functions or uses."

Source: European MSP Platform, 2022d.

- The Spatial Development Programme of Mecklenburg-Vorpommern, adopted in 2005, was revised and became legally binding in 2016. The responsible institution for MSP is the Ministry of Energy, Infrastructure and State Development.<sup>1</sup>
- Lower Saxony's Spatial Planning Programme underwent revisions and modifications several times, last amended in 2017. The responsible institution for MSP is the Ministry of Food, Agriculture and Consumer Protection.<sup>2</sup>
- The federal MSPlan and MSPlans of the federal states (Länder) co-exist. None of the plans is superior to another one, and they interact within the system of shared responsibilities within a federal country like Germany.<sup>3</sup> However, there are specific connection points - shipping lanes and cable routes - energy sector, linking these plans through so-called "gates".<sup>4</sup>
- Federal MSPlan is binding on all regulating bodies that come after in the planning cascade. Although it is binding on other agencies who issue licenses in the EEZ, it is not binding on individuals.<sup>5</sup>
- Federal MSPlan is serving as a framework for other plans.<sup>6</sup> It also has "the medium-term guiding effect" that "makes it possible to adapt the designations to the situation if this becomes necessary in the sense of the guiding principle of spatial planning namely sustainable and future-oriented spatial development from an economic, social, and ecological point of view. In this regard, all sectoral concerns are evaluated continuously."<sup>7</sup>
- The federal MSPlan "encompasses spatial planning objectives and spatial planning principles. Priority areas have the legal character of spatial planning objectives and reservation areas that of spatial planning principles."8
- Altogether, the German MSP system is similar to the one in Sweden and partly in Finland.<sup>9</sup>

<sup>&</sup>lt;sup>1, 2, 6, 7</sup> European MSP Platform, 2022d; <sup>3, 5, 6</sup> informant #3, Germany, pc, December 3, 2021; <sup>4</sup> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022; <sup>9</sup> informant #6 – MSP researcher, Sweden, pc, December 14, 2021.

## 3. VI. LATVIA: THE LATVIAN MSP SYSTEM



- 1. MSP title: The Maritime
  Spatial Plan the Marine
  Inland Waters, Territorial Sea
  and Exclusive Economic
  Zone Waters of the Republic
  of Latvia (Maritime Spatial
  Plan 2030)
- 2. Spatial MSP coverage: Entire sea waters under Latvian jurisdiction
- 3. Bordering countries: EE, LT, SE
- 4. Sea area: 28 500 km<sup>2</sup>
- 5. Length of coastline: ≈500 km
- Competent authority:

   Ministry of Environment and Regional Development (MoEPRD)
- 7. MSP legislation in place: 2014
- 8. Planning started: 2010 2014

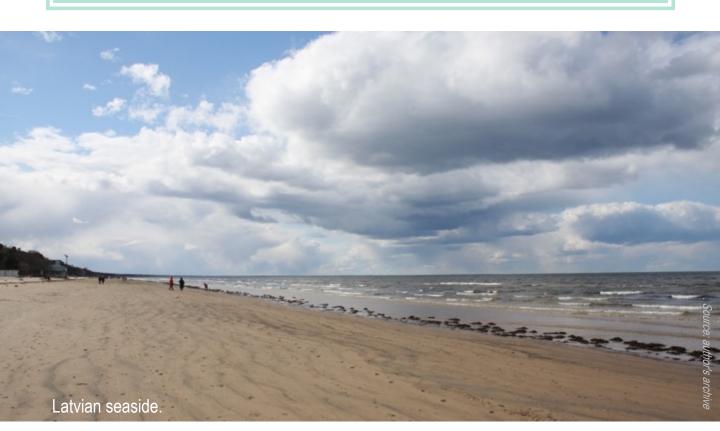
- 9. MSP adopted: 2019
- 10. Parts of the plan: One
- 11. Planning type: National
- 12. Scale: 1:250 000
- 13. Perspective of the plan:12 years
- 14. MSP review period: 6 years
- 15. Action plan: No
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: No
- 20. Digitisation of the plan in an accessible format: No
- 21. Other MSPlans in force: No

- MSPlan was created by combining the outcomes of many prior, finished projects.<sup>1</sup>
- Given its framework (vision, priorities, action plan), MSPlan is a long-term strategy because it attempts to achieve strategic goals. The plan limits where and what can be developed according to its official title and zoning. Given the level of specificity, it can be categorised as a thematic plan because it describes a specific region on a national scale and concentrates on particular industries.<sup>2</sup>



### Main MSP LEGISLATION:

- Spatial Development Planning Law (2011)
- Regulations of the Cabinet of Ministers No. 740 "Procedures for the Development, Implementation, and Monitoring of the Maritime Spatial Plan" (2012)
- Marine Environment Protection and Management Law



<sup>&</sup>lt;sup>1</sup> Veidemane et al., 2017; informant #7 – governmental official, Latvia, pc December 17, 2021; informant #13 – spatial planner, Latvia, pc, January 20, 2022; <sup>2</sup> Neimane and Puzulis., 2023, forthcoming.



BEST PRACTICE EXAMPLE. "We were also pioneers who tried to include the ecosystem approach and specifically the evaluation of ecosystem services in the planning process, which is still a topicality in Europe now regarding how to implement it. We had it when the concept was still emerging, and there was a lack of data and knowledge. It was one of the first attempts, if not the very first, that I know of, in the European context, at least in the Baltic region, where ecosystem service mapping was already integrated into the official planning process,"

informant #13 - spatial planner, Latvia, pc, January 20, 2022

"In my view, one of the critical moments, characterised by this 10-year-long road to the approval of the Latvian maritime spatial plan, was the ministry's intensive organisation of meetings of various interested parties and dialogue between sectors. Finally, everyone got used to the idea that there will probably be wind parks at some point, aquaculture also wants to apply for its rights there, and maybe there could be some other new economic activity, and even shipping and fishermen were used to not being the only ones with the sea. It has provided such a perfect starting point for continuing these conversations. I think it will be a bit easier to revise all this already in this second negotiation process,"

informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022

"The bottom line is that we spent much time developing the plan. In principle, it was a very long process for us, in which the main thing was that we started talking to our stakeholders sufficiently early and in good time. You could say that it was just such a purposeful effort,"

> informant #7 – governmental official, Latvia, pc December 17, 2021

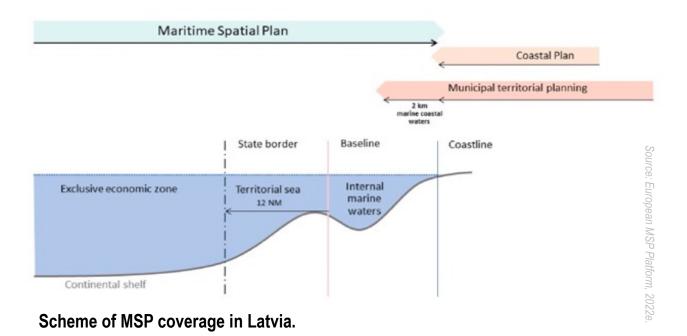
"Creating MSPlan was one big challenge in itself. In some sense, we already had experience from such pilot projects and some examples from other countries, but at the same time, the directive with the new settings had already been adopted. It was in a sense an exploratory process, not just following some usual planning steps, but developing a methodology to do it, learning through the process, as it was, therefore, a very creative and complex task,"

informant #13 – spatial planner, Latvia, pc, January 20, 2022 • Four sections comprise the plan: an explanatory note, a strategic section, a section on "Use of the sea", and a graphic part.



BEST PRACTICE EXAMPLE. In Latvia, local municipalities carry out territorial planning for sea coastal waters adjacent to their administrative territory (water area two kilometres wide from the sea coastline). In this area, they have the opportunity to develop thematic plans to, for example, provide for walking piers, zoning where bathing and riding jet skis are allowed or restrictions for jetties and surfing. When developing thematic plans, local governments take marine planning into account.

Source: informant #7 – governmental official, Latvia, pc, December 17, 2021. See Land Management Law (2014), Art. 15(5), 1(1), para. 7; Regulations of the Cabinet of Ministers No. 740, "Procedures for the Development, Implementation, and Monitoring of the Maritime Spatial Plan" (2012), para. 6.



<sup>&</sup>lt;sup>1</sup> informant #7 – governmental official, Latvia, pc, December 17, 2021 and December 7, 2022.

- The MSPlan categorises marine space use into priority, existing, and general use.
- The main distinction between categorising the areas is that the priority uses can only be carried out in previously established areas, where they cannot be interfered with by other activities, as opposed to non-priority uses, which can be carried out anywhere they are not prohibited.<sup>1</sup>
- The MSPlan provides the initial outline of the usage of the sea territories and a framework for further elaboration.
- Although the MSP in Latvia takes place at the national level, local municipalities have specific authority to perform thematic planning up to 2 km from the shore in the coastal waters of the sea.
- MSPlan is linked to the National Long-term Thematic Plan for Public Infrastructure Development in the Baltic Sea Coastal Area (coastal plan), adopted in 2016.
- The MSPlan of Latvia is one of the earliest attempts to apply EBA and, more specifically – ecosystem services in the MSP regionally.



- Maritime Spatial Plan 2030. The Maritime Spatial Plan for the Marine Inland Waters, Territorial Sea and Exclusive Economic Zone Waters of the Republic of Latvia. 2019. Available at: <a href="https://www.varam.gov.lv/en/maritime-spatial-planning">https://www.varam.gov.lv/en/maritime-spatial-planning</a>
- MoEPRD. 2019. Guidelines for Planning Marine Coastal Waters and the Adjacent Land Areas at the Local Level. PanBalticScope. Available at: <a href="http://www.panbalticscope.eu/wp-content/uploads/2020/01/PBS">http://www.panbalticscope.eu/wp-content/uploads/2020/01/PBS LSI Guidelines summary.pdf</a>
- MoEPRD. 2019. Pilot Thematic Plan for Salacgriva: integral planning of the marine coastal waters and the adjacent land areas. PanBalticScope. Available at: <a href="http://www.panbalticscope.eu/wp-content/uploads/2020/01/PBS">http://www.panbalticscope.eu/wp-content/uploads/2020/01/PBS</a> LSI Pilot Thematic Plan summary.pdf

<sup>&</sup>lt;sup>1</sup> informant #7 – governmental official, Latvia, pc, December 17, 2021 and December 7, 2022.

# 3. VII. LITHUANIA: THE LITHUANIAN MSP SYSTEM



- 1. MSP title: Comprehensive Plan of the Territory of the Republic of Lithuania
- 2. Spatial MSP coverage: Entire sea waters under Lithuanian jurisdiction
- Maritime bordering countries: LV, RU, SE
- 4. Sea area: ≈ 6 400 km<sup>2</sup>
- 5. Length of coastline: ≈ 90 km
- Competent authority: Ministry of Environment
- MSP legislation in place:
   2014
- 8. Planning started: 2014 (first), 2017 (second)
- MSP adopted: 2021
- 10. Parts of the plan: One
- 11. Planning type: National

- 12. Perspective of the plan: 30 years (concept), 10 years (solutions)
- 13. Scale: 1: 200 000
- 14. MSP review period: 5 years
- 15. Action plan of MSP: Yes
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: MSPlan included in the Comprehensive Plan of the Territory that is a part of the national spatial strategy
- 18. Adoption (generation): Second (first in 2015)
- 19. Maritime strategy: No
- 20. Digitisation of the plan in an accessible format: No
- 21. Other MSPlans in force: No

- The first Lithuanian MSPlan was introduced as a part entitled "Maritime territories" of the Comprehensive Plan of the Territory of the Republic of Lithuania ("Comprehensive Plan") in 2015.
- Since then, the Comprehensive Plan planning process has included all terrestrial and marine areas, combining the spatial solutions of both domains into one single document.<sup>1</sup>



### Main MSP LEGISLATION:

- Law on Territorial Planning (2014)
- Rules for Preparation of Complex Territorial Planning Documents
- Coastal Strip Law
- The new Comprehensive Plan that outlines the country's long-term strategic vision up to 2050 and develops solutions until 2030 was adopted in 2021. It lays out broad goals for spatial development and offers solutions that specify the critical trajectories for that development and the nation's territorial and functional priorities.<sup>2</sup>
- Accordingly, MSPlan was integrated into the new Comprehensive Plan.

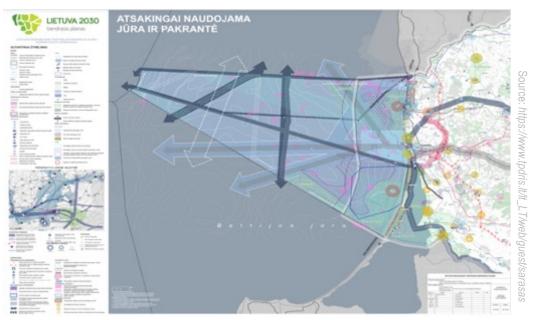


### **IMPORTANT.** Legal impact of the Comprehensive Plan:

- "- It is obligatory for the state governmental institutions, taking decisions at national level, related to the use, management and protection of the territory of the country, forming regional policy, spatial integrated maritime policy.
- It includes planning conditions for national level special plans, long term programmes and strategies, and lower level comprehensive and special plans.
- Development of strategies of economic sectors, other strategic plans and programmes of state institutions have to rest upon solutions of the Comprehensive Plan of the Republic of Lithuania."<sup>1</sup>

Source: European MSP Platform, 2020f.

<sup>&</sup>lt;sup>1,2</sup> European MSP Platform, 2020f.



Graphical part of the MSPlan of Lithuania.

"The first MSPlan was a part of the Comprehensive Plan, but it was done separately from the comprehensive plan. The Comprehensive Plan was in place, and we did add a supplementary document to this Comprehensive Plan. It was as a separate annex,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

"Previous Masterplan or Comprehensive Plan was approved in 2002 and valid until 2020. And the MSPlan was prepared and approved as an additional part of the Comprehensive Plan in 2015. So, it was a guite recent addition to the Comprehensive Plan. Therefore, with some not-big changes, it was included in the new Comprehensive Plan, which was approved in 2021. That's why this first MSPlan was prepared already as a part of the Comprehensive Plan, which was at that time in force. So, it was just an addition to the acting Comprehensive Plan. And now this new Comprehensive Plan was already prepared as, let's say, a joint venture between MSPlan and land use plan,"

> informant #44 – business representative, Lithuania, pc, March 16, 2022

- "Responsible use of the sea and coast" is one of the strategic topics of the Comprehensive Plan.<sup>1</sup>
- Concerning MSP, the Conceptual Framework has identified two functional areas: "coastal" and "offshore".<sup>2</sup>



BEST PRACTICE EXAMPLE. "Every comprehensive plan - it national plan, is it small village plan... if it's a comprehensive plan, the next day after it's approved, the planning organiser — ministry or municipality have three months to prepare an implementation plan. So, for example, in the Comprehensive Plan, we see only solutions like developing a seaport. In this implementation plan, you already would see some measures, like, first, to do a feasibility study, where to develop it; second, to prepare technical documentation for preparation infrastructure for development. Once you already have measures in the implementation plan, you indicate who is responsible for each measure and a timeline. It gets into the detail of each solution,"

informant #61 – spatial planner, Lithuania, pc, April 5, 2022.



**EXPERIENCE GAINED.** "In the MSPlan as a priority, we state: this is the priority area, this is second priority, this is third priority... so, for the developer who comes into our area... they look at the map, and they immediately know that: if they take this or this or this area in our sea, they might have better or worse conditions. I mean, better conditions mean conflicts are almost eliminated. The worst-case scenario is that they need to maybe to negotiate it with other users, or maybe they need to do some additional research. So, in that sense, it was the main aim, to facilitate the process for the development that they do not aim for the areas that are from the very beginning somehow programmed to be problematic."

informant #41 – spatial planner, Lithuania, pc, March 10, 2022.

• The relationship between the sea area and the adjacent urban centres, particularly with Klaipėda, a state-category and support-type metropolitan centre, and Klaipėda's role as a port, dictate how the sea region's utilisation pattern develops.<sup>1</sup>





- LIETUVA 2030. Bendrasis planas (Comprehensive Plan). 2021.
   Available at: <a href="https://www.bendrasisplanas.lt/">https://www.bendrasisplanas.lt/</a>
- The seaport of Klaipėda can offer information about the harbour's operations, rules, and development plans. Available at: <a href="https://portofklaipeda.lt/en/main-page/">https://portofklaipeda.lt/en/main-page/</a>

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2020f.

## 3. VIII. POLAND: THE POLISH MSP SYSTEM





- MSP title: Maritime Spatial Plan of the Polish Internal Sea Waters, Territorial Sea and Exclusive Economic Zone
- Spatial MSP coverage: Entire sea waters under jurisdiction of Poland except lagoons and waters of ports
- 3. Maritime bordering countries: PL, SE (in the Baltic Sea)
- 4. Sea area: ≈ 38 300 km<sup>2</sup>
- 5. Length of coastline: 770 km
- 6. Competent authority:
  Ministry of Infrastructure
- 7. MSP legislation in place: 2015
- 8. Planning started: 2016
- MSP adopted: 2021
- 10. Parts of the plan: One

- 11. Planning type: National
- 12. Scale: 1: 200 000
- 13. Perspective of the plan: 10 years
- 14. MSP review period: 10 years
- 15. Action plan of MSP: Yes
- 16. Nature of MSP: Binding
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: No
- 20. Digitisation of the plan in an accessible format:
  <a href="https://sipam.gov.pl/geoportal">https://sipam.gov.pl/geoportal</a>
- 21. Other MSPlans in force: Yes, 22 plans: for lagoons, port waters and detailed plans for selected areas (in train of preparation)

- The MSPlan is developed for all Polish sea areas, except for those which, due to their size and concentration of uses, would be unable to be governed by a plan on a small scale.<sup>2</sup>
- The competent authority is the Ministry of Infrastructure which checks the validity of the MSPlans and – in cooperation with other ministries – makes them be enforced and is responsible for international cooperation.<sup>3</sup>



### Main MSP LEGISLATION3:

- Act on Marine Spatial Planning
- Act on Sea Areas of Poland and Maritime Administration (1991)
- Act on access to information on environment and its protection, public participation in environmental protection and on environmental impact assessment
- Ministerial ordinance on required scope of MSPs in their textual and graphic parts
- Hence, in the Polish MSP system, besides the general MSPlan, "the dedicated MSPlans" are developed in some areas due to specific problems and, therefore, need more detail in scale.<sup>4</sup> For example, "ports or in areas like the Vistula Lagoon and Szczecin Lagoon, using a small-scale plan is impossible. In such a plan of, say, 1:100 000, most issues would be practically invisible." The detailed plans are currently being prepared.
- In all cases, the MSPlans are developed by Maritime Offices, Gdynia Maritime Office and Sceczin Maritime Office, dividing their obligations for the Western and Eastern sides of the Polish Sea.<sup>6</sup>
- After the development of the MSPlans is finalised, they are submitted to the Ministry of Infrastructure.<sup>7</sup>

<sup>&</sup>lt;sup>1</sup> Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022; informant #57 – governmental official, Poland, pc, March 30, 2022; informant #53 – spatial planner, Poland, pc, March 28, 2022; <sup>2</sup> informant #50 – spatial planner, Poland, pc, March 30, 2022; <sup>3</sup> prepared based on information provided by informants #55&#56 – governmental officials, Poland, pc, March 29, 2022; <sup>4</sup> informant #50 – spatial planner, Poland, pc, March 23, 2022; informant #53 – spatial planner, Poland, pc, March 28, 2022; <sup>5</sup> Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022; <sup>6</sup> 7 informant #50 – spatial planner, Poland, pc, March 23, 2022; informant #57 – governmental official, Poland, pc, March 30, 2022; informant #53 – spatial planner, Poland, pc, March 28, 2022.

"The difference between the General Plan and detailed plans is the scale and the level of details in the prescribed text. But the detailed plans have to consider all of the references of the General Plan. So, the detailed plan cannot prescribe something different from the General Plan. It has to be coherent with the General Plan. The procedure is the same. The differences are scale, number of public meetings, the scope of prescriptions in the text, depth of analysis and time needed for the preparation of the plan,"

informant #50 – spatial planner, Poland, pc, March 23, 2022

"After all, we have one big MSP and these smaller plans. They are dependent on the big MSP. There are tenders to make smaller specific plans for those particular areas. And then it's just added to the general plan, to the national MSP. So, after all, it's like add-ins and not major changes to the plan,"

informant #53 – spatial planner, Poland, pc, March 28, 2022

"In Poland, in 2003, we got an indication from one of the ministries that there's a chance to change our law to... I would say to put MSP into Polish law, but we had little time for that. In fact, it was half a day. Happily, at the time, we already had some ideas in the backs of our minds and something written down as a draft and very rough notes. So, during that half a day, we were able - with some good people in the ministry – to write something fairly acceptable and put MSP into our law. The lines were put into the Act on Sea Areas of Poland and the Maritime Administration. In fact, this Act was and still is a kind of marine or maritime Sea. Constitution of Poland. There were just two articles. To a large extent, that was more a statement of will than something which could be fully implemented because it required some other laws which were not produced at that time. And it took us guite a long time to have them. The final was in 2015, when we introduced a very extensive chapter or extended that tiny chapter into a very extensive one on MSP in the same Act. That's the law which works until now, plus additional regulations of ministers, which were necessary for this to be workable,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022





**IMPORTANT.** "The spatial development plans for marine internal waters, territorial sea and the exclusive economic zone, hereinafter referred to as "plans", shall decide about: <u>basic function and allowed functions</u> for every area designated in plans. The basic functions mean leading function of the area designated in the plans. Allowed functions mean other potential manners of using the area, if such coexistence does not disturb the leading function in a way that permanently prevents the implementation of the basic function and does not adversely affect the sustainable development of the area designated in the plan."

Source: Act on Sea Areas of Poland and Maritime Administration.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> as provided by informants #55&#56 – governmental officials, Poland, pc, March 29, 2022.

- According to MSP regulations, local spatial plans of coastal municipalities and findings from research and spatial assessments pertinent to coastal municipalities must be taken into account when MSP is developed.<sup>1</sup>
- Local authorities must be consulted regarding MSPlans, and the maritime administration (Maritime Offices) must be consulted regarding terrestrial spatial plans.<sup>2</sup>
- On coastal land, municipalities and voivodships (provinces), which are self-governing bodies, are each given a portion of the duty for spatial planning, depending on the type of plan. The plans do not extend the coastline/waterline to the sea area.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022g; <sup>2</sup> informants #55&#56 – governmental officials, Poland, pc, March 29, 2022; <sup>3</sup> European MSP Platform, 2022g.

# 3. IX. SWEDEN: THE SWEDISH MSP SYSTEM



- 1. MSP title: Marine spatial plans for Gulf of Bothnia, Baltic Sea and Skagerrak/Kattegat
- 2. Spatial MSP coverage: Entire sea waters under jurisdiction of Sweden with exclusion of private waters and sea waters one nautical mile from the baseline landward
- 3. Maritime bordering countries: DE, DK, EE, LT, LV, PL, RU
- 4. Sea area: 130 000 km<sup>2</sup>
- 5. Length of coastline: ≈ 3 200 km
- Competent authority: Ministry of Environment and Swedish Agency for Marine and Water Management (SwAM)
- 7. Legislation in place: 2014
- 8. Planning started: 2012 2014

- MSP adopted: 2022
- 10. Parts of the plan: Three plans
- 11. Planning type: National, local
- 12. Scale: N/A
- 13. Perspective of the plan: N/A
- 14. MSP review period: 8 years
- 15. Action plan: No
- 16. Nature of MSP: Advisory
- 17. Integration level with other plans: Self-standing
- 18. Adoption (generation): First
- 19. Maritime strategy: Yes
- 20. Digitisation of the plan in an accessible format: N/A
- 21. Other MSPlans in force: Municipal comprehensive plans

- In the BSR, Sweden has the largest marine area.<sup>1</sup>
- According to the Planning and Building Act, the land, the internal waters and the territorial sea (baseline to 12 nm) are spatially planned by the municipalities. The Swedish Government is in charge of the EEZ. There will be an overlapped planning area in the majority of the territorial sea now that the state has implemented a national MSP.<sup>1</sup>
- The Environmental Code regulates specific MSPlans at the national level. These plans cover EEZ and territorial waters, one nautical mile seaward from the baseline (incl. the EEZ and excl. private waters).<sup>3</sup>



### Main MSP LEGISLATION:

- Environmental Code (1998)
- Planning and Building Act (2010)
- Marine Spatial Planning Ordinance (2015)
- Bill on Biodiversity and Ecosystem Services (2014)



**IMPORTANT.** "Swedish territorial waters are divided into two zones, public waters and private waters. The public waters belong to the public and are represented by the Legal, Financial and Administrative Service Agency. The private water zones, both water and sea floor, are parceled property governed by the Real Property Formation Act and comprises the area of water 300 m from the shoreline and further to the contour line of 3 m depth if it is situated outside the area of 300 m. In sounds, bays, fjords and areas with islands and archipelagos special rules regulate the boundary between private and public waters. Private waters can be owned by different legal entities, be it a natural person, a juridical person, a municipality or the State. Several properties in private waters are jointly owned."

Source: European MSP Platform, 2022h.

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022h; informant #6 – MSP researcher, Sweden, pc, December 14, 2021; <sup>2, 3</sup> European MSP Platform, 2022h.



- The MSPlan provides guidance to public authorities and municipalities when planning and evaluating usage requests (in the permit process) for the areas covered by it.1
- Specific MSPlans are developed for the Baltic Sea, the Gulf of Bothnia and Skagerrak/Kattegat.



**Best Practice Example.** In 2015, the SwAM issued the paper Maritime Spatial Planning – Current Situation 2014 in 2015. The report details the condition of Sweden's marine resources as well as the present and future constraints and demands on them.

Source: European MSP Platform, 2022h.

<sup>&</sup>lt;sup>1</sup> European MSP Platform, **2022h**; informant #6 – MSP researcher, Sweden, pc, December 14, 2021.



**EXPERIENCE GAINED.** "There are clear advantages of having localised planning because there's much more local knowledge about the areas. But regarding these more overarching issues like the ecosystem approach and marine health, I would say separating them so completely is problematic. So, my main point is that both of these different levels of planning are needed, but they also need to be a lot better integrated with each other,"

informant #6 – MSP researcher, Sweden, pc, December 14, 2021.

- Marine Spatial Planning Ordinance clearly defines the roles of different authority levels in the MSP. The municipalities have to be actively involved in the process, and the County Administrative Boards need to provide the coordination.<sup>1</sup>
- The Swedish MSP system has certain similarities with German and, to a certain extent, the Finnish planning system.<sup>2</sup>



**BEST PRACTICE EXAMPLE.** In 2015, the SwAM issued the paper Maritime Spatial Planning – Current Situation 2014 in 2015. The report details the condition of Sweden's marine resources and their present and future constraints and demands. As much as possible, the SEAs of the MSPlans were based on the findings of the Symphony-cumulative tool's impact assessments (see also best practice example <a href=""><u>\*5. XI. Example No. 11. Cumulative impacts at the national level"</u></a>).

Source: SwAM. Symphony – a tool for ecosystem-based marine spatial planning (see box – "Further reading").



- SwAM. 2015. Marine Spatial Planning 2014. Available at: <a href="https://www.havochvatten.se/download/18.44319c4a145d364b807436c/">https://www.havochvatten.se/download/18.44319c4a145d364b807436c/</a>
   <a href="https://www.havochvatten.se/download
- SwAM. Symphony a tool for ecosystem-based marine spatial planning. <a href="https://www.havochvatten.se/en/eu-and-international/marine-spatial-planning/swedish-marine-spatial-planning/the-marine-spatial-planning-process/development-of-plan-proposals/symphony---a-tool-for-ecosystem-based-marine-spatial-planning.html">https://www.havochvatten.se/en/eu-and-international/marine-spatial-planning/the-marine-spatial-planning-process/development-of-plan-proposals/symphony---a-tool-for-ecosystem-based-marine-spatial-planning.html</a>

<sup>&</sup>lt;sup>1</sup> informant #31 – MSP researcher, Sweden, pc, February 18, 2022; <sup>2</sup> informant #6 – MSP researcher, Sweden, pc, December 14, 2021.

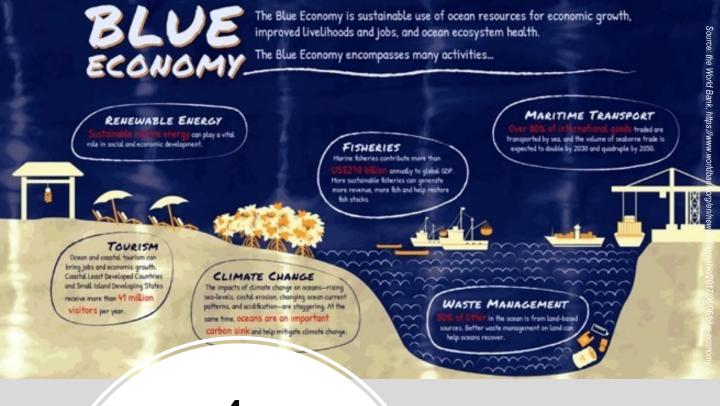
"If we look specifically at the MSP legislation, it doesn't say much about the outcome of any permit process, despite requiring that you consider these different interests and sort of the recommendations set out in the plans, but they are not binding. So, they are input into licencing processes. But still, the final decision has to be made by the licencing authority weighing up different kinds of interests and aspects and the plan being sort of, of course, important input. Still, it's not decisive for the decision. It remains to be seen how governmental agencies and environmental courts - how much weight they will attach to the plans in individual cases, licencing and permitting cases,"

"The County Administrative Boards are national authorities with thematic responsibilities at the regional geographical scale, and they played the critical connector role in the national marine spatial planning process."

informant #31 – MSP researcher, Sweden, pc, February 18, 2022

"The Swedish MSP legislation is complex due to the municipalities in Sweden – they have a powerful position when it comes to planning, and this strong position makes them able to plan out to the territorial border, which means as much as 12 nautical miles out of the sea. This right from the municipalities' point of view to plan the sea is extreme,"

informant #23 – MSP researcher, Sweden, pc, February 7, 2022 informant #1 – regional official, Sweden, pc November 30, 2021



# BLUE ECONOMY SECTORS: CHARACTERISTICS AND FUTURE CHALLENGES

"The driver of the Blue Economy is that land ecosystem is overused. I mean, we are on the carrying capacity, as you say in ecology, on land. About 50% of the primary production goes to humans and all the animals we eat; the rest is for all the other things that live on land. So, if we look in the future to feed another 3 billion people coming here in the next 50 years, the land will not cope with it. So, we must go to the sea and help the land ecosystem. Therefore, we could see the blue farms growing and the blue fields and more food production from the sea,"

# 4. I. BLUE ECONOMY SECTORS: OVERVIEW\*

- The term "Blue Economy" can have a variety of meanings and methods, and it can be used in a variety of contexts.
- As a result, there is no standard definition for the term.<sup>1</sup>



**DEFINITION.** Blue economy is "sustainable use of ocean resources for economic growth, improved livelihoods, and jobs while preserving the health of ocean ecosystem."

Source: World Bank<sup>2</sup>

• Significant and competing discourses of human-ocean relations during the UN Conference on Sustainable Development and its side events have been identified through four leading lenses on how the oceans can be viewed, namely, as 1) natural capital, 2) livelihoods, 3) good business, and 4) a driver of innovation.<sup>3</sup>



**DEFINITION**. Blue Economy comprises "all economic activities related to oceans, seas and coasts. It covers a wide range of interlinked established and emerging sectors."

Source: European Commission<sup>4</sup>

 One of the prevalent viewpoints is that a critical component of the blue economy and, consequently, socially optimal use of ocean-based natural resources is integrated management of numerous relevant economic sectors, balancing sustainable economic benefits with long-term ocean health. However, the ultimate mechanisms for implementing integrated policies still need to be better understood and are still nebulous.<sup>5</sup>



**DEFINITION.** Blue Economy "is now a widely used term around the world with three related but distinct meanings - the overall contribution of the oceans to economies, the need to address the environmental and ecological sustainability of the oceans, and the ocean economy as a growth opportunity for both developed and developing countries."

Source: Center for the Blue Economy<sup>6</sup>

Description based on review and references: Neimane, 2020a, 2020b.

<sup>1</sup> Eikeset et al., 2018; Ertör and Hadjimichael, 2020; Keen et al., 2018; Silver et al., 2015; Winder and Le Heron, 2017; <sup>3</sup> Voyer et al., 2018; Voyer and van Leeuwen, 2019 as expanded on work of Silver et al. (2015); <sup>5</sup> Eikeset et al., 2018; Keen et al., 2018; Klinger et al., 2018; <sup>2, 4, 6</sup> As quoted by the UN, n.d.

 According to the terminology used in the European Union, the Blue Economy established sectors comprise Marine living resources, Marine non-living resources, Marine Renewable energy, Port activities, Shipbuilding and repair, Maritime transport and Coastal tourism.<sup>1</sup>

Types of established and emerging maritime uses			
Uses	Mobile	Fixed	Others
Established	<ul> <li>Coastal and maritime tourism and recreation</li> <li>Fisheries</li> <li>Shipping</li> </ul>	<ul> <li>Coastal aquaculture</li> <li>Marine Protected Areas (MPAs)</li> <li>Oil and gas</li> <li>Pipelines and cables</li> <li>Ports</li> <li>Sand and gravel mining</li> </ul>	<ul> <li>Coastal communities</li> <li>Military defence and security</li> <li>Maritime and underwater cultural heritage</li> <li>Scientific research</li> </ul>
Emerging	Dynamic marine protected areas  elaborated by Ms	<ul> <li>Carbon sequestration through carbon capture storage</li> <li>Deep sea mining</li> <li>Desalination plants</li> <li>Offshore aquaculture</li> <li>Offshore remewable energy (wind, tidal, solar and wave energy)</li> <li>Other effective areabased conservation measures</li> </ul> Sour Seglobal with inputs from multiple expenses	Marine biotechnology or bioprospecting  rce: UNESCO-IOC/EC, 2021 after perts and bibliographic references

 Marine Renewable Energy (such as Ocean energy, floating solar energy and offshore hydrogen generation), Blue bioeconomy and biotechnology, Desalination, Maritime defence, security and surveillance, Research and Infrastructure (submarine cables, robotics) are emerging maritime uses.<sup>2</sup>

- MSP is one of the approaches through which the Blue Economy is planned and implemented.<sup>1</sup>
- MSP is regarded as a foundational element of the Sustainable Blue Economy in the EU.<sup>2</sup>

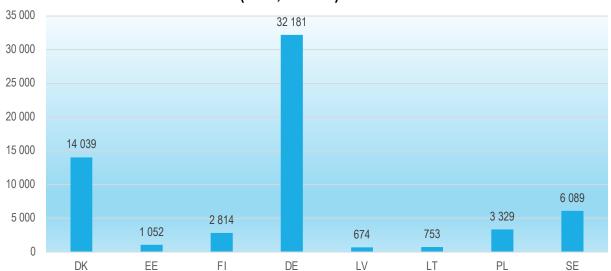


**IMPORTANT.** "MSP is considered an enabler of the blue economy because it:

- Identifies sites for new and emerging uses following an ecosystem-based approach
- Mitigates conflict
- Promotes multi-use spaces for coexistence and synergies
- Increases investor confidence by introducing transparency and predictability
- Facilitates filling critical knowledge gaps on the ocean and key sectors
- · Can foster collaboration across borders for regional development
- Promotes capacity building through innovative and transformative technologies."

Source: UNESCO-IOC/EC, 2021, p. 24

# Gross value added of the maritime sector in the BSR in 2019 (EUR, million)



Source: EU Blue Economy Observatory. In depth Analytical Tool. Available at: https://blue-economy-observatory.ec.europa.eu/depth-analytical-tool\_en

<sup>&</sup>lt;sup>1</sup> Neimane, 2020b; <sup>2</sup> EC, 2022b after Ramírez-Monsalve and van Tatenhove, 2020.

#### 4. I. BLUE ECONOMY SECTORS: OVERVIEW

"What I get above the feeling from, that's my impression from the process, is that they really tried to accommodate different uses and not just prioritised wind power,"

> informant #31 – MSP researcher, Sweden, pc, February 18, 2022

"Energy considerations, especially at present, have become very important. And therefore, they have to be considered. However, it's not that you see a demand for wind energy: therefore, you push back everything else as much as you possibly can and place wind energy, for instance, as a major topic. No, it's still a requirement to have all these things on an equal basis. In fact, for me, at least, spatial planning starts with considering all possible uses on an equal basis. And then, with the work on the plan, it appears that some of these uses become more important or spaceconsuming, and because they are space-consuming, they seem more important than the others, but they are not. The all-round effect is a comprehensive, sustainable use of the space for a comprehensive set of uses."

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

"In Finland, we stated in our plans in the very first principles that we treat each sector equally, meaning that in our planning, we didn't put any weight on the economic values, for example. We understand that the maritime sectors have different economic, societal, and community values. We didn't put any priorities or actions on other actions in our sea area. It's an important message from us that we want to foster all the values that all the sectors provide. And those values are different. They have to understand that. We treat each maritime sector equally because we value and foster different kinds of values that provide to this society and community. I think it's essential to avoid any conflicting views; mitigate the conflicts beforehand and not after the adoption of the plan,"

> informant #34 – regional official, Finland, pc, February 24, 2022

"In our plan, we have treated all the sectors we deal in our plan equally, so we don't have any priorities for wind energy, for example. So it's a democratic plan in that way,"

informant #27 – governmental official, Finland, pc, February 15, 2022

- The established industries continue to play a significant role in the development of the EU Blue Economy, and it is in these industries that more thorough, precise, and comparable data are accessible. In total, there are seven established industries.
- With a 20% growth from 2009, the seven established sectors of the EU Blue Economy produced a gross value added (GVA) of €183.9 billion in 2019. While total turnover increased by 15% to €667.2 billion from €578 billion in 2009, the gross operating surplus (profit), at €72.9 billion, was 22% higher than in 2009.<sup>2</sup>
- According to the methodology used by the EU, since 2020, offshore wind energy has been included among the established sectors.<sup>3</sup>
- The Blue Economy's emerging and innovative sectors are connected to the marine environment. Still, they are either not yet mature (such as ocean energy other than oil, gas, and offshore wind) or for which data is not readily accessible to the general public (such as maritime defence, safety, and security).<sup>4</sup>

Sector	Sub-sector	
	Primary production	
Marine living resources	Processing of fish products	
	Distribution of fish products	
	Oil and gas	
Marine non-living resources	Other minerals	
	Support activities	
Marine renewable energy	Offshore wind energy	
Dont anti-dalar	Cargo and warehousing	
Port activities	Port and water projects	
Chinhailding and sounds	Shipbuilding	
Shipbuilding and repair	Equipment and machinery	
	Passenger transport	
Maritime transport	Freight transport	
	Services for transport	
	Accommodation	
Coastal tourism	Transport	
	Other expenditure	

Source: EC, 2022b, p. 23.



- EC. 2020. The EU Blue Economy Report. 2020. Luxembourg: Publications Office of the European Union. <a href="https://www.doi.org/10.2771/363293">https://www.doi.org/10.2771/363293</a>
- EC. 2021. The EU Blue Economy Report. 2021. Luxembourg: Publications Office of the European Union. <a href="https://doi.org/10.2771/8217">https://doi.org/10.2771/8217</a>
- EC. 2022. The EU Blue Economy Report. 2022. Luxembourg: Publications Office of the European Union. <a href="https://doi.org/10.2771/793264">https://doi.org/10.2771/793264</a>

<sup>&</sup>lt;sup>1, 2, 4</sup> EC, 2022b; <sup>3</sup> EC, 2020.



# 4.II. MARINE LIVING RESOURCES

# 4. II.A. FISHERIES

- Although every part of the ocean has the potential to have a fishery and human activity anywhere impacts fishing operations, most MSPlans do not designate specific zones for fishing. However, fisheries is undoubtedly a sector.<sup>1</sup>
- International agreements and rules, such as the Common Fisheries Policy of the EU or regional fisheries management organisations, govern many sector elements.<sup>2</sup> Nonetheless, due to the sector's complexity, several subsectors' provisions should be included (small-scale fisheries such as shrimp fishing, bottom, trawls, and pelagic fisheries).<sup>2</sup>

"Even if the fishing industry doesn't give so much revenue to the Swedish economy, it's important; it has other values and its strong interest anyway,"

> informant #26 – governmental official, pc, Sweden, February 10, 2022

"Fisheries is significant for our coastal communities; it still is because it has been given from grandfather to father and father to son. It's a very traditional way of earning an income,"

> informant #22 – spatial planner, Estonia, pc, February 3, 2022

"The countries prioritise oil and gas because it's so much money, and then as a second choice, they also give advantage to wind farms. I have not seen in many countries that they would make areas reserved for fisheries. They should do that. They should protect the cod fishing grounds and ensure we can harvest fish from these areas yearly. It will be a big problem the day we need to import all our fish,"

> informant #60 – fisherman, Denmark, pc, April 4, 2022

"Around Pärnu, there is more than 100 years' petition for fishing that every family has plots on the sea. These plots, they are not juridical plots, but it has been that my grandfather and his grandfather have used this area of the sea for more than 100 years,"

informant #14 – spatial planner, Estonia, pc, January 21, 2022

<sup>&</sup>lt;sup>1,2</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references; <sup>3</sup> informant #23 – MSP researcher, Sweden, pc, February 7, 2022.

- According to the EU methodology, capture fisheries are classified under the "Marine living resources" group, including small-scale coastal, large-scale and industrial fleets.<sup>1</sup>
- During the establishment of the MSPlans, fishermen in several countries expressed dissatisfaction that the interests of the sector they represent need to be sufficiently considered during the MSP.
- Places for fishing should specify the target species (such as anchovies or sardines) and the subsector (such as purse seine fisheries) that are engaged in the activity.<sup>2</sup>



BEST PRACTICE EXAMPLE. In Estonia, "from January to April 2021, the Ministry of Finance, in close collaboration with the Ministry of Rural Affairs and Ministry of Economic Affairs and Communications, tried to find a suitable solution to the strong opposition the plan received from the fishermen. Given that both fishing and energy are state interests, it was essential that a compromise was found. Therefore, the Government made an interim decision to leave some of the suitable offshore wind energy areas from the fishermen. Given that both fishing and energy are state interests, it was essential that a compromise was found. Therefore, the Government made an interim decision to leave some of the suitable offshore wind energy areas on hold until the year of 2027. These reserve areas overlap with the most intensive fishing areas. This will provide the fishermen with assurance that their situation will not change until 2027, when the situation will be evaluated again."

European MSP Platform, 2022b

- As well as, the period in question is essential because the activity may take place during particular seasons.<sup>3</sup>
- For instance, sharing time slots during underwater research could solve issues for fisheries. Fishes require that region, particularly in the spring and fall, but possibly not in the winter or the summer. As a result, a potential solution would be to permit research to occur then in the winter and summer while fisheries might take place in the spring and fall.<sup>4</sup>

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022b; <sup>2,3</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references; <sup>4</sup> informant #8, Germany, pc, December 22, 2021

"We in fisheries feel left out, as the last in line for using marine space, even though fishing is one of the first. And as our fishermen also said when the MSP process started: anyone else can go and do something on the shore that is not a boat... wind farms can also be built on the shore... but we fishermen – we can't drive along the shore, we need the sea. We have no other place. But on the other hand, there are other examples of MSP where specific calculations of marine areas from fishing were made. Attempts were made to put them on the map, thus showing priority areas for fishing and sea areas, in which, if someone wants to enter, then coordination with fishing is necessary... not so as in our case, that fishermen must agree with all who will enter the waters of the sea,"

informant #63, Latvia, pc, April 21, 2022.



• In the MSPlan, it is also necessary to consider places crucial for various life phases and vital fish habitats (where fish spawn, reside, or grow).1



BEST PRACTICE EXAMPLE. Because there is no other regulatory mechanism for protecting spawning grounds in Germany, it is included in the Mecklenburg-Vorpommern MSPlan as a fishery resource. To facilitate easier fish stock recovery, conflicting usage is avoided on spawning grounds, particularly for herring. Also, in the MSPlan of the Åland Islands, areas are indicated that may be significant for fish spawning and nursery. The locations are a collection of data that the provincial government's fisheries department has gathered from numerous research and models.

Source: informant #8, Germany, pc, December 22, 2021; European MSP Platform, 2022c.



<sup>&</sup>lt;sup>1</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references.

- Fisheries are essential in conserving lifestyle in the coastal areas and socio-economic value.
- In the context of the MSP participation processes, topics relating to relocation and compensation may be pertinent to discuss with fishermen.<sup>1</sup>
- Thus, one of the main challenges is creating a dialogue with fishermen and integrating their interests in the future MSP cycles.

"You don't have a lot of other possibilities to work in some regions of Denmark, and if you close down the fishery, many cities will more or less disappear, although we have a lot of huge companies [in agriculture] in Denmark that earn a lot of money. Of course, they are far higher and export more, but these jobs are located around Copenhagen. All of our jobs are located in Jutland and the coastal cities. You could argue that if the fishery disappears, you will have a lot of jobs in the wind industry instead, but we don't know that, probably. You could re-school all the fishermen. But then again – if we want to eat fish, then we need to import it from somewhere,"

informant #60 – fisherman, Denmark, pc, April 4, 2022

"There are also fisheries which are not included in the MSP. So, there are no changes for the fisheries. But this is criticised both by the fisheries organisations and the green organisations because the fisheries organisations feel that the space around them is getting smaller and smaller and smaller. They will have a smaller area to fish in, you know, in the future because there is space that will be used for lots of other things. And green organisations find that the fisheries should be more regulated and, you know, reduced to specific areas. But fisheries is a very, very important sector in Denmark,"

informant #64 – MSP researcher, Denmark, pc, May 12, 2022

- Overall, fisheries is one of the maritime sectors experiencing one of the most significant controversies regarding its future and setting in the MSP context and its relationship with other sectors.
- Major conflicts which the fisheries experience concern offshore wind developments and nature protection areas.

<sup>&</sup>lt;sup>1</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references.

"The offshore wind farming is coming very fast, and the fishermen feel their industry always has to move. And as a very traditional way of using the sea area, they feel that they might not find their place, and it's a real challenge. The fishermen, also impact assessment of the plan shows that we didn't meet their needs enough in a certain level that was needed, and we didn't find a way to support the economies."

informant #34 – regional official, Finland, pc, February 24, 2022

"The problem is that it has never been looked at in detail if there is a potential risk of conducting trawling over the cables if you dig them down in one meter. And we have never been told if you need to dig them to one and a half meters. How much more that will cost? How many millions will that cost to secure coexistence between wind farms and fisheries with active gear? That it's not only trawling, there are also dredges, the Danish anchor sane, the Scottish sane... the several gears we would like to use inside wind farms. I'm sure that in the future, we will need to have access because otherwise, we will run out of space, but it is possible to secure this coexistence."

> informant #60 – fisherman, Denmark, pc, April 4, 2022

 Although there are promising prospects for multi-use between fisheries and offshore wind energy and nature protection, there still needs to be more knowledge, data and practical implementation to be elaborated.

"[Fisheries and bird protection] have the conflict in several years on several levels. First of all, you could say a bottom-reaching fishery as fish trawling and so on, could be harmful to the habitats, also for birds, and of course, when you catch fish, you will take some of the food from the birds that are also eating fish. And another point is that some fishing gear also caused many birds' bycatches. So, putting up fishing gillnets in, for instance, bird conservation areas could harm many diving birds. So, the fishery is also a significant threat to the birds' habitat. I don't think that fishing should be totally protected in a bird conservation area, but at least there is a conflict which should be considered,"

> informant #65 – NGO representative, Denmark, pc, June 16, 2022



### 4. II.B. AQUACULTURE

- Aquaculture includes farming of fish, shellfish, and algae (seaweed, used interchangeably).
- In the EU, fish and shellfish farming are more established industries, whereas algae (macro- and micro-), along with bacteria, fungi and invertebrates, form an essential part of Blue Biotechnology<sup>1</sup>.
- Almost all countries have included aquaculture in the MSPlans, although the specific zones have not always been reserved for this particular purpose (for example, in Latvian MSPlan).
- In general, the activities of aquaculture enterprises are recognised as having an impact on the environment and, for example, in Latvia, belong to the group of polluting activities of category C because, as a result of intensive farming, risks can be created for the formation of deposits, biochemical changes, as well as the release of harmful substances into the environment.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> EC, 2022b; see Finnish MSPlan where macro-algae cultivation is under blue biotechnology; <sup>2</sup> Aquaculture Development Plan for Latvia 2021–2027.

Aquaculture might have a negative connotation because of the perceived environmental
and societal impacts. However, some of these perceptions are not true because of the
development of new approaches and fish-feeding techniques. For example, there is a
test farm nearby Saaremaa that raises rainbow trout and mussels, with the mussels
primarily as a compensatory measure to offset the trout farm's adverse effects<sup>1</sup> (see
also Best Practice Example of Germany below).



BEST PRACTICE EXAMPLE. "In Germany, you can do a fish farm if you also take up all the nutrients you put in the water with the fish food. And you are allowed to use mussels and algae that you co-cultivate with your fish to reduce the nutrients you put in from the fish food,"

informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022



### **IMPORTANT.** Fish farming in numbers:

- Time to get a licence for fish farming in Finland: renewal 1 year, new licence 2 - 3 years
- Market evidence: some fish farming companies from Finland are operating in Sweden and Estonia
- Cost of environmental impact assessment: 200 000 300 000 EUR.

Source: informant #33 – business representative, Finland, pc, February 24, 2022

- Although, in the BSR, low salinity waters are unfavourable to algae and mussels farming, some algae<sup>2</sup> and mussels could be cultivated in the Baltic Sea (see also Chapter 4, "Best MSP Regional Practice" on algae and mussels farming).
- There are ecological and economic benefits to growing algae. It does not have to be rinsed and fertilised. However, limits to algae production are military areas, Natura2000 and transport routes and active tourism areas.

<sup>&</sup>lt;sup>1</sup> informant #37 – MSP researcher, Estonia, pc, March 7, 2022; <sup>2</sup> informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021; EC, 2022b; see Finnish MSPlan where macro-algae cultivation is under blue biotechnology.

"If you catch fish, you remove nutrients from the water. But fish farms require, normally, that you feed the fish. So, if you put food there, you add nutrients to the water. And it boosts eutrophication. And the fish takes perhaps most of that feed... it is biomass, and you move it out afterwards, but a fraction of feed still escapes into the water, either directly or via the fish's metabolism. So, the fish farm is inevitably a pollution source, polluting the sea with nutrients and other components. But their business idea is that the feed for the fish would also be taken from the sea... They can catch other fish, for example, invasive species, and then they make fish food from that and feed the fish in the fish farms. In that case, perhaps, it can remove nutrients from the sea and positively impact it. In theory, it might practically be possible to make fish farms that contribute to decreasing the eutrophication,"

"Fish farming is the only industry that has already achieved the aim of reducing nutrients. So, there's a 70% reduction in nutrient loading from the 90s. So, we have already achieved our targets. And we have been developing feeding techniques all the time. And that's why we think that, because we are food production and every food production has some influence. There are around 60 – 70 % of nutrient loading comes from aguaculture. And we are 1%, so we think it balances the issue. Municipalities and landowners are guite happy because we are in remote areas and can have employees and tax revenues. We are offering 20 jobs. And, of course, the municipalities are interested in having activities in the local territory,"

informant #33 – business representative, Finland, pc, February 24, 2022

"With the pollution you create by offshore aquaculture, you produce much more food than with the pollution you produce on the fields with grain or other agricultural activity,"

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022

informant #38 – business representative, Lithuania, March 10, 2022  The strategy of marking areas (considering where particular seaweed is growing or what is the best potential for mussels to be produced) in the MSPlans is sound for the initial stages of aquaculture development as the starting point (see Best Practice Example of Estonia below).<sup>1</sup>



BEST PRACTICE EXAMPLE. "In the end, what was done in our MSP, was that in the same way as offshore wind production areas were put on the map, also in the end, the areas for potential aquaculture were put onto the map. And that was something that came from the aquaculture sector; they would like to see also similar approach as it was done with the offshore wind. And the planners agreed with this, and they tried to say as clearly where it is possible to develop aquaculture in the future,"

informant #28 - NGO representative, pc, Estonia, February 16, 2022.

Algae can be harvested as beach-cast like a beach wreck in case of a storm. The algae
are thrown up on the beaches and make piles of algae there. It helps clean the beaches
and is easier to swim, removes bacteria, and serves as fertiliser. It can be used to
produce the biogas.<sup>2</sup>



**APPROACH.** Seaweed production is subject to general environmental and water legislation and the procedures for obtaining fishing and aquaculture permits. There are a few exceptions, though: besides Denmark having special seaweed licences, Estonia and Germany have laws governing the collection of wild seaweed. Seaweed farming has very different environmental effects than fish farming or the opposite.

Source: KTH, 2021, GRASS project.

<sup>&</sup>lt;sup>1</sup> Bārda et al., 2021, Grass project; <sup>2</sup> informant #37 – MSP researcher, Estonia, pc, March 7, 2022; informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021.

"There is so much potential that is not harnessed. We have almost no aquaculture facilities. I think it is a general sea area challenge that we have this untapped potential. More research should be done on how to grow mussels and seaweed in the sea. It is essential for carbon neutrality and the Green Deal goals, and this should have a much bigger part in our sea use,"

informant #37 – MSP researcher, Estonia, pc, March 7, 2022

"Algae farming benefits the ecosystem by attracting biodiversity and taking up nitrogen, phosphorus, and carbon dioxide. And then you harvest it. So, there are a lot of benefits to doing it. One can do many things with algae - you could do energy, you could do material, you could make food, you could have food ingredients, you could make fertilisers, you could do biogas, alcohol and so on. There is such a wide possibility to use biomass for different things. You plant it and harvest it after five months. So, you have a very, very fast turnover rate. You don't have to rinse and put fertiliser. It's very climate-smart,"

informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021

"There is eutrophication in the Baltic Sea. That's the problem. And if they take out something, then the system probably improves. If they take out algae... The algae is a big problem. It is an eutrophication symptom. This excessive algae biomass is quite harmful. And this industry is very environmentally friendly. This is a good example of the blue economy, but there are also adverse environmental impacts. One of them is trawling when you take the algae out of the sea; it disturbs sediments at the bottom of the sea. These activities can harm the food chains and ecosystem functioning in concrete locations because you take some algae from a very limited space. Still, at the same time, if we remove the algae from the water, then we remove excess biomass and excess nutrients, then it's good, simply speaking. It has a positive impact on the environment on the Baltic Sea in general,"

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022



**APPROACH.** There is no aquaculture licensing procedure in Latvia. To ensure the supervision of the production processes of the products sold on the market in accordance with the veterinary and food safety requirements, the aquaculture company must obtain the recognition of the Food and Veterinary Service. To start aquaculture production in Latvia, a permit for polluting activities must also be obtained from the State Environmental Service. The aquaculture farm and the cultivated fish species must be registered in the Agricultural Data Centre, and a cooperation agreement must be concluded with the Food and Veterinary Service and a veterinarian under the supervision of the aquaculture enterprise.

Source: Aquaculture Development Plan for Latvia 2021–2027.

 Aquaculture still experiences several challenges it needs to overcome to harness its full unmatched potential.<sup>1</sup>



**APPROACH.** The MSPlan of Latvia does not specify specific locations or restrictions for aquaculture development in the sea. Each development plan can be viewed individually, depending on the technology used and, following the recommendations included in the plan, the compatibility of aquaculture with other types of marine use. The right to use a permit or license area in the sea can be obtained by a person who has won a tender announced for the relevant sea area.

Source: Maritime Spatial Plan 2030, 2019 (Latvia); Aquaculture Development Plan for Latvia 2021–2027.

New trends also include the phenomenon that aquaculture is required to move from the coast to offshore due to the negative perception of society and its eventual influence on local communities and its perceived impact on the environment. For example, new licences are mostly given for production offshore (about 10 – 15 km from the coast).<sup>2</sup> It is challenging due to the natural conditions and available techniques to deal with the harsh conditions offshore.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> see also UN, 2020; <sup>2</sup> informant #33 – business representative, Finland, pc, February 24, 2022; <sup>3</sup> informant #32 – regional official, Finland, pc, February 21, 2022.

"If you go offshore, you must go large because you must do a lot of tonnage to a small price to be commercially viable. You can do it for a higher price when you are near, but it should still go large enough. Because this is again with the current situation, maybe, a decent realisation of food production like mussels and algae in your backyard has its merits because then you're not relying on chains and transportation; you're just next to it. You can do it yourself. So, there's this big thing: decentralised production and centralised production. Centralised production is in hard-to-reach areas, where you need to have a lot of stuff done with a small workforce and do a lot. Decentralising production is where you can easily reach it, and everybody can do it. That's just my opinion to have a good mixture of both. You have big production in the far regions and smaller tinier production close to shore, but you've got a lot of people doing it. So that they can live out of it and have their food. While you go offshore, it's costly to do it. So, do it together with offshore wind. The wind energy is anyway there; they have their boats; there having the stuff, so, when you're doing it anyway, just pushing that little farm of algae and mussels while you have a look at your wind turbines. because there is always traffic going in and out, so, to have synergies between that. I think the problem is commercialisation because if you go offshore, you must invest money beforehand. The first step should be near shore, so if you're going near shore and everything is filled near shore, and you can't produce near shore anymore, the next step is offshore. If you have already used everything near shore, then go offshore. That is, I think, normal order because, near shore, you learn everything you can and go offshore then. The further north we go, the lower the salinity, so we have a higher risk of ice coverage. So, it's getting much harder to put anything into a year-round when you have ice coverage that might rip everything apart. So, the risk increases. Ice rubs everything off because it breaks everything near shore and destroys everything. Offshore is in this position a bit easier. Still, if you can't get it into nearshore sites, like permanent aquaculture developed, it is hard to do... ok, you just lost 10 million in your nearshore site, but go for 20 million in your offshore site... It's tough,"

> informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022

"The conditions in the sea are guite rough, further from the coastline. Nowadays, the aquaculture plants have been quiet to the coast. They have got their own archipelago, shelter from the harsh conditions. But now we suggested they go a little further from the coastline, and we don't have the technique yet. The plants should be quite big, so the investment is huge, and they still need someplace for winter. For example, we don't have a technique to take the structures underneath the ice. So, we were looking quite far into the future, and the sector is not there yet. So, let's see what happens,"

"If it's very far away, it's very expensive. You have to go offshore. If you have to go there every day... And how you manage the feeding and observe the fishes there... It would be best if you made it all automatic. Automatic feeding and measures and sensors, and everything. Because you can't be there every day, so it's costly,"

informant #32 – regional official, Finland, pc, February 21, 2022

informant #33 – business representative, Finland, pc, February 24, 2022

- In the Baltic Sea Region, the macroalgae industry is still in its infancy, and there needs to be more comprehensive information about the potential advantages of macroalgae production.<sup>1</sup>
- Mussel and algae farming can be done at the same place, and the mussels will fertilise
  the algae. However, there is still a need to explore those ways of interaction when
  growing algae and mussels together. For example, investigating the multi-use options
  with offshore wind and tourism to help society become more favourable towards fish
  and algae farming.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> KTH, 2021, GRASS project; <sup>2</sup> informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022.

"I've also just been contacted by an organisation for the coastal fishery that promotes environmentally friendly ways of fishing, and they are looking into combined seaweed and shellfish farming, and they would like to initiate a discussion with us in terms of how the Maritime Spatial Plan should facilitate these kinds of activities. So, that is something we have on the calendar. We will discuss this kind of combined aguaculture of seaweed and shellfish. I hope that this is something that we will see more in the future, this kind of more sustainable way of producing food, and, of course, the maritime spatial plan should be ready to accommodate these kinds of developments. I think that it's important that it doesn't prevent it or that it's not an obstacle in any way,"

"When discussing open sea aquaculture, our environmental conditions are unfavourable. We don't have shelter areas. Our entire coast is open coast, meaning any storm will affect all the infrastructure immediately and break down after the first or second storm. But if, for example, we build our first offshore wind energy park and then suddenly start thinking about combining it with aquaculture, then there are other questions: insurance, technical capabilities, safety, who is responsible, who is paying damages if something happens, maintenance, logistics etc. So, it becomes very complicated for the new user trying to use the existing infrastructure. There will be a lot of technical and legal problems, I think, to solve,"

informant #43 – government official, Denmark, pc, March 14, 2022 informant #41 – spatial planner, Lithuania, pc, March 10, 2022



**BEST PRACTICE EXAMPLE.** In the GRASS project framework, the aquaculture farming planning tool was prepared. Available at: <a href="http://www.sea.ee/bbg-odss/Map/MapMain">http://www.sea.ee/bbg-odss/Map/MapMain</a>

- Another issue the sector faces is the involvement of its representatives in the MSP processes and building the dialogue with other stakeholders.
- From the previous MSP cycles, dialogue, especially with fish farmers, proved that this had been one of the lacunes of the process.

"When we talk about collaboration, you should have room for negotiation. And in this case, I think that the fish farmers found out they didn't have the freedom to negotiate because of our conservationists. When we collided with these stakeholders, our conservationists said, 'You can't do anything.' It is just because the indicators show that you cannot have any fish farming activities. And they were not willing to with the fish farmers. So, it was a tough place to collaborate, so to say; this is the situation,"

"We'd like to have more participation because there are a lot of issues on fish farming that people don't know what we are doing. They are assuming different issues, but it's important to have our faces out there, who we are and then needed information for our activities,"

informant #34 – regional official, Finland, pc, February 24, 2022 informant #33 – business representative, Finland, pc, February 24, 2022



**IDEA.** "If we start trading in nutrients, that would be great because then you don't need to have big mussels that are used for human consumption because human consumption is actually – we are picky, we want to have big mussels, not the tiny ones that are growing in the Baltic. So, if you're going for nutrient reduction using mussels to take up nutrients, that would be a great way to say that you get your money not from growing mussels, for selling them for food, but for growing mussels to do something good for the environment. And then you can say – OK, I picked up so and so much of nitrogen and that and that tonnage of phosphorus, and that is paid by someone else that is putting something in."

informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022.



**APPROACH.** In Latvia, "aquaculture is not defined anywhere where it is. If someone wanted to develop aquaculture, for example, growing algae, it could be done anywhere without anything else planned. For example, it will not be possible to do this in areas or zones reserved for navigation. You can't put anything in them. But in many other vacant places, algae can be cultivated,"

informant #7 - governmental official, Latvia, pc, December 17, 2021



 UN. 2020. UN Global Compact Seaweed Manifesto. Available at: https://www.seaweedmanifesto.com

# 4.III. OIL AND GAS

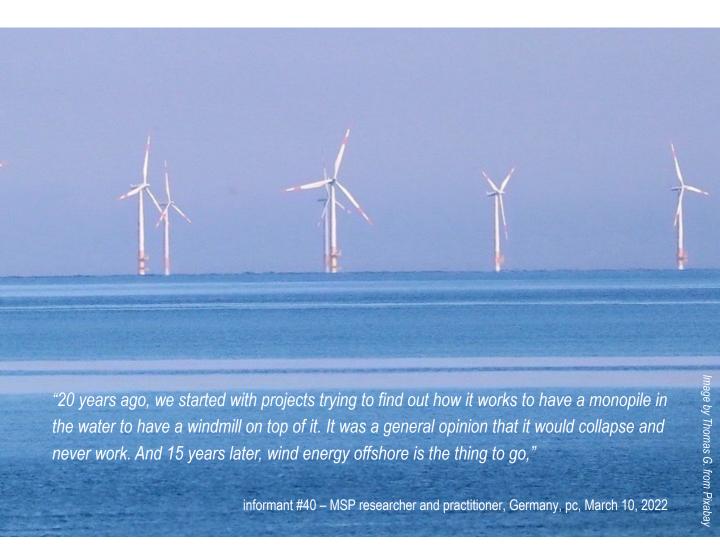
- Oil and gas is not significant activity in the BSR.
- However, countries like Denmark, Finland, Latvia, Lithuania and Poland have addressed this activity in their MSPlans.
- Whether oil and gas are integrated into the plan depends on the geological possibilities in the specific geographical location. These resources do not exist in some parts of the Baltic Sea.
- The MSP should consider the location of offshore infrastructure, safety and exclusion zones, and maintenance and supply vessel activities. These elements are governed internationally and are depicted on nautical maps.<sup>1</sup>
- During the MSP process, it is possible to talk about considering current and decommissioned sites for multiple uses and developing synergies with other purposes.<sup>2</sup>
- On the other hand, the offshore blocks are sizable areas covered by concession agreements where temporary exploring activities occur. It is essential to consider oil and gas-related operations, pressures on ports and harbours, and potential effects on other industries and surroundings.<sup>3</sup>



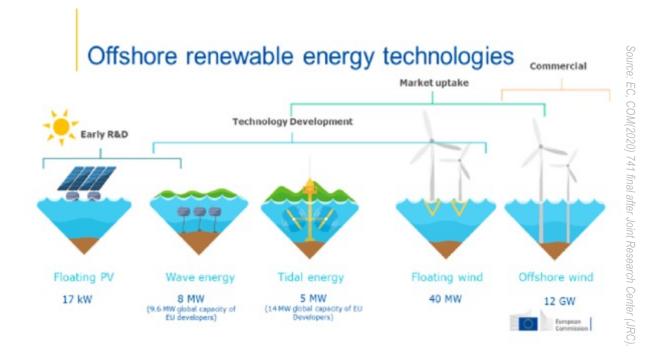
## 4. IV. OFFSHORE RENEWABLE ENERGY

"One subject really stands out and, of course, is the wind power, offshore wind parks, and areas found within MSP. This has raised a lot of questions. So, when we consider blue growth, like algae farms or mussel farms, these things are considered less impactful, so they don't raise many questions. Neither do, let's say, protect the cultural heritage, the wrecks in the sea bottom or maybe other uses, like maritime transport. That doesn't raise that many questions, but the main focus has been on the areas that are found suitable for offshore wind energy production,"

informant #29 - spatial planner, pc, Estonia, February 17, 2022



- The phrase "offshore renewable energy technology" refers to various clean energy solutions in various phases of development. Bottom-fixed wind turbines are already used in large commercial-scale projects in European seas, but other technologies are catching up.<sup>1</sup>
- Other technologies, including floating offshore wind, ocean energy technologies like wave or tidal, floating photovoltaic installations, and the use of algae to produce biofuels, are being developed swiftly by European research institutions and businesses.<sup>2</sup>
- According to the EU Strategy on Offshore Renewable Energy, offshore renewable energy has to become "a core component of Europe's energy system by 2050."
- In 1991, Vindeby, off the southern coast of Denmark, witnessed the installation of the first offshore wind farm in history. Only some people at the time thought this might be anything more than a test project.<sup>4</sup>
- Since 2021, offshore wind energy has been classified as an established sector according to the EU approach.<sup>5</sup> Accordingly, it is considered the most approbated sector of maritime renewable energy at the moment.



<sup>&</sup>lt;sup>1</sup>EC, COM(2020) 741 final; <sup>2</sup>EC, COM(2020) 741 final, p. 2; <sup>3</sup>In 25 years, the farm produced 5MW, enough to meet the yearly energy needs of 2 200 households. EC, COM(2020) 741 final; <sup>4</sup>EC, COM(2020) 741 final.

- Offshore wind energy (OFW) is one of MSP's dominant sectors and main drivers (e.g., in Germany<sup>1</sup> and Lithuania<sup>2</sup>).
- Regarding wind energy, priority zones totalling about 22–26 GW and reservation areas totalling approximately 12–15 GW have been established in the EEZ of the North Sea and Baltic Sea, respectively.<sup>3</sup>



BEST PRACTICE EXAMPLE. In Germany federal MSPlan "particularly takes into account of the expansion of offshore wind energy in the EEZ that is of outstanding importance for achieving the German and European climate protection goals. The spatial plan secures sites for offshore wind energy in the long term and strives for co-use with other uses. The spatial safeguarding of sites for wind energy production enables the ideas of the mission to be implemented, such as the sustainable, climate-protecting development statement on the use of climate-friendly energies, support for energy security, and the achievement of national and international climate targets and the greenhouse gas neutrality target 2045 (Climate Protection Act) and 2050 (European Green Deal)."

Source: European MSP Platform, 2022d.



**FUTURE TRENDS.** "The Baltic Sea also has a high natural potential for offshore wind energy and some localised potential for wave energy. Countries have started to cooperate more closely to tap this potential, including in the Baltic Energy Market Interconnection Plan (BEMIP) High-Level Group, the 'Vision And Strategies Around the Baltic Sea' initiative (VASAB), the Baltic Marine Environment Protection Commission (Helsinki Commission – HELCOM), and the EU strategy for the Baltic Sea Region."

Source: EC, 2021b.

<sup>&</sup>lt;sup>1</sup> informant #3, Germany, pc, December 3, 2021; informant #6 – MSP researcher, Sweden, pc, December 14, 2021; informant #10 – business representative, Germany, pc, January 13, 2022; informant #23 – MSP researcher, Sweden, pc, February 7, 2022; Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022; <sup>2</sup> informant #41 – spatial planner, Lithuania, pc, March 10, 2022; <sup>3</sup> European MSP Platform, 2022d.



#### **IMPORTANT: OFW in numbers:**

- Time of processing application and getting the licence: min. 3 years, on average 4 to 5 years;
- From beginning a preliminary study to starting to construct the OFW project: from 7 to 10 years;
- Project completion: min. 4 years, up to 6 years optimistically but could be 10 years or more; 10 years;
- Project lifespan: about 20 years;
- Jobs created 1 mw will account for ≈10 jobs;
- Development costs of OFW: at least two times higher than developing wind farms on land.

Source: informant #1 – regional official, Sweden, pc, November 30, 2021; informant #7 – governmental official, Latvia, pc, December 17, 2021; informant #10 – business representative, Germany, pc, January 13, 2022; informant #16 – business representative, Latvia, pc, January 24, 2022; informant #22 – spatial planner, Estonia, pc, February 3, 2022; informant #28 – NGO representative, pc, Estonia, February 16, 2022; informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022; informant #47 - business representative, Latvia, pc, March 22, 2022; informant #49 – MSP expert, Latvia, pc, March 22, 2022.

• Currently, operating wind farms in the BSR are located in Denmark, Finland, Germany and Sweden.



## **APPROACH.** Currently, there are three offshore wind parks in Sweden:

- 1st: Bockstigen (established in 1998) 5 windmills (estimated production 11 GWh/year),
- 2<sup>nd</sup>: Kårehamn (established in 2013) 16 windmills (estimated production 180 GWh/year),
- 3<sup>rd</sup>: Lillgrund (established in 2007) 48 windmills (estimated production 330 GWh/year).

Source: information provided by informant #1 – regional official, Sweden, pc, November 30, 2021.

- In the BSR, there are two systems of allocating the space for OFW development:
  - An auction system where the public sector points out areas where they want to build wind, and then companies are bid to develop there (for example, Lithuania, Latvia);

 A market-based system where everyone can apply for a wind project wherever, and then the public sector decides in the process if it will work or not. So, in many areas of the sea, sometimes there's more than one company doing or finding out the conditions for future wind projects in the same area. The winner is the company which first gets the permit and has the best project (e.g., Sweden).<sup>1</sup>



BEST PRACTICE EXAMPLE. "In 2012, an evaluation report was produced by the BSH and the Ministry of Transport, which assessed if and how the implementation of the plan had been successful in reaching the target set, focusing mainly on the development of offshore wind energy and the target set for offshore wind energy production by the Federal Government. Steering effects were obvious, offshore wind farm applications now being limited to the priority areas for offshore wind energy and areas with no general limitation to offshore wind farm development. Thus, adequate space has been secured for medium- to long-term development of the sector, as a prerequisite for the implementation of the government's renewable energy strategy."

Source: European MSP Platform, 2022d.

"Today, there are many proposals.
And they are progressing quite well.
There are environmental impact
assessment processes initiated. It is
today a real thing. People are
working in very concrete terms there.
The offshore wind farms give very
much profitability out. And the
investment is huge. The land
resources today are already quite
limited; it's not so easy to find a
place inland,"

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022

"You can say that right now, the year after the plan was adopted, we have no free available space for offshore wind farms, although we have no single wind farm yet. So, the demand is huge, and it's more than we could expect, actually,"

informant #57 – governmental official, Poland, pc, March 30, 2022

<sup>&</sup>lt;sup>1</sup> informant #19 – business representative, Sweden, pc, January 28, 2022.



"I think the main planning task is then the requirement from the society, how many windmills are needed to supply the society with energy. But then there will be conflicts – the fishery, environment, ecosystems, etc. And I think the MSP process is a necessary process to combine all these different needs for sustainable marine planning in a way that everything needs to be considered, so the increase in offshore structures in a way that fishery is still possible, that still, the ecosystem is not suffering and so on,"

informant #59 - MSP researcher, Germany, pc, April 4, 2022

"When promoting wind, you can say that it is the cheapest form of energy production. It is the greenest form of energy production. It is necessary to develop as much of this wind energy capacity as possible in Latvia to reduce the price and promote local production and, thus, the reliability of this energy supply. However, it must be considered that the wind alone will not solve all electricity issues. The sun alone will not. These are not mutually exclusive. Likewise, any generative power cannot exist by itself. It is theoretically possible, but considering the system we operate in, the system provides it. Each production unit brings a certain contribution to energy security and development... Please put it in this basket, and it only strengthens this industry. If the wind doesn't work, the sun will. If the sun doesn't work, there will be wind."

#### 4. IV. OFFSHORE RENEWABLE ENERGY

"Wind energy production definitely is the most opposed new activity in marine areas,"

informant #22 – spatial planner, Estonia, pc, February 3, 2022

 Although the OFW is one of the blue economy's most dominant and promising sectors, it provokes the most extensive discussions, exchanges of opinions, and sometimes opposition and speculation.

"Conflicts would come from the offshore wind farm developments that can be challenging when they start to build them because we don't have experience with them. That can be a challenge. I mean using the sea area and nature protection in general and regarding these wind farms because we don't know how it affects everything. It's all theoretical,"

informant #37 – MSP researcher, Estonia, pc, March 7, 2022 "This is a compromise always. I think it's in every country similar. But in this case, with offshore wind, is a compromise between using offshore wind on the one hand, but on the other hand not trying to plan it in a way that it does disturb tourism or other, you know, maybe romantic ideas of like when you stand at the coast you don't want to see industrial things that you want to see the waters,"

informant #58 – project manager, Germany, pc, March 31, 2022

"For example, offshore fish farms can take advantage of the presence of wind turbines by anchoring the floating fish farms and thus manage both the turbines and the aquaculture infrastructure at the same time. There it can be done, for example, by one administrator, thus what is called "auxiliary services" or additional various services arise. Business develops in ports, including small ports that are closer to the places where wind farms are located. Additional business opportunities arise, additional employment, respectively, it is not the case that there is only black or white,"

informant #49 – MSP expert, Latvia, pc, March 22,

- Especially the OFW is exposed to the interaction with other activities at sea. Due to this, the co-existence and further multi-use research are expected to primarily affect the speed at which OFW projects will be implemented.
- Work with local communities and businesses should be performed, most affected by the OFW, including taking into account cultural values and symbolic values of the sea, as well as acceptable social and visual buffers of the distance of OFW from the coast.
- There is a need to explore the multi-use options with aquaculture and tourism to help society become more favourable towards OFW.1
- The solutions to resolve the conflicts of OFW with other sectors, especially allegedly incompatible sectors such as defence<sup>2</sup>, fisheries and nature, need to be looked at and researched carefully.
- Striking the right balance between coastal wind energy and OFW further from the coast is needed.
- New technological developments, such as floating turbines and the height of wind poles, should be considered.

"I think we need to learn more about the potential of fishing and offshore wind production combination. Because, now, when the wind farms are so big, they also need big space in between them, so, there is a potential, but we need to look at the risks and other effects on the fisheries and other potentially negative effects."

informant #26 – governmental official, pc, Sweden, February 10, 2022 "Aquaculture and offshore wind farm can use the same port and the same infrastructure onshore, rescue stuff and everything like that. So, we are not maybe working together in the same location at sea, but we are working in the same location in supporting infrastructure."

informant #12 – business representative, Estonia, pc, January 19, 2022

<sup>&</sup>lt;sup>1</sup> informant #40 – MSP researcher and practitioner, Germar.y, pc, March 10, 2022; informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021; <sup>2</sup> for example, according to the new assignment from the government to SwAM (Sweden), the defence sector is under increased pressure to develop coexistence strategies or to be proactive in the effort to resolve the conflict with OFW with a purpose to establish more locations for renewable energy. Informant #51 – government official, Sweden, pc, March 24, 2022.

#### 4. IV. OFFSHORE RENEWABLE ENERGY

"I think that the thing is that traditional fishermen also used many of the areas that were suitable for wind energy production. So, it is like a conflict between the old and new livelihoods. They have been using these areas for a long time, both on the west coast of Saaremaa and Riga Bay... they feel the most potential loss. It cannot be that the wind energy ushers out the traditional employment, but they have to co-exist,"

informant #29 – spatial planner, pc, Estonia, February 17, 2022

"Let's say, in connection with wind farms, from the aquaculture perspective – why not? There could be some synergy that, let's say, aquaculture can be placed and grown between these wind farms in a way that, let's say, it is more efficient to use this area. Not just simply close: no, for shipping, no, for fishing, but something else is done in addition to these areas."

informant #63, Latvia, pc, May 12, 2022

"At least we hypothesise that – since people are quite negative against wind farms because they see them and then they don't see the value of them, the local value of them because a wind farm is there and then it's connected to the arid and then it is sent out in Sweden or Germany, in our European grid system. So, it doesn't contribute any money to the local economy. Still, if you have algae cultivation, that will be a local income. and then you combine something that is this diffuse income, the wind farm, with something that actually will contribute to the local economy. And then maybe there will be a much more positive attitude towards wind farms if you combine them. Multi-use – that's what we are trying to do now, work with that,"

informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021

"The offshore wind farming is coming very fast, and then the fishermen feel that they have to kind of... it is always their industry that has to move. And as a very traditional way of using the sea area, they feel that they might not find their place, and it's a real challenge,"

informant #34 – regional official, Finland, pc, February 24, 2022



BEST PRACTICE EXAMPLE. In Denmark, "the maritime spatial plan allocates areas in the North Sea and at Bornholm in the Baltic Sea for renewable energy and energy islands, in order to ensure that within these areas, energy islands can be established with associated facilities and installations for renewable energy, as well as technical structures for interconnection, handling and transmission of electricity from offshore wind farms. [..] In the longer term, it shall be possible to connect technologies that can store or convert the green power to, for example, green fuels, so-called Power-to-X. The energy islands thus play an important role for future expansion of offshore wind and electrification in both Denmark and our neighbouring countries."

Source: Danish Maritime Authority, 2021, p. 29.

"Often, it's a problem in Denmark: if you can see the mills from land, then they want to push them further out, and that's why most of the mills are 20 kilometres from the coast. Then there's a cable to transport the energy from the mills to shore; it's more expensive. But they are pushing them further and further out. And that's a bigger and bigger problem for us because that's where we fish. Sometimes they place the parks in the most productive fishing grounds, and we have caught fish for hundreds of millions every year in these areas, and now we cannot catch them anymore. That makes no sense. Then we are not making an effective system. Then we are just favouring energy over food. And then we need to use this energy money to import food from other countries. And how have these fish been fished in other countries? What is the impact on nature there?"

informant #60 – fisherman, Denmark, pc, April 4, 2022

"There are some different downsides of having a coastal wind farm. One is the official impact on many coastal inhabitants and people with summer houses. They are not happy about getting a wind farm in the coastal view. And some places also decrease the value of the property and so on. There is also a need to protect our very coastal areas because it's not good environmental status. So, in general, I think there is a need to keep our coastal areas free from further construction, if possible, to allow the environment to recover. That is also part of the reason why we want to, and we need to move it further offshore,"

> informant #43 – government official, Denmark, pc, March 14, 2022



APPROACH. "The rule up to now was that offshore wind in Germany needs to be out of sight. I like this idea. Of course, it's more expensive. It depends on the waters you're planning it. In some coastlines, when you go that far away, the waters are getting very deep in those areas, but generally, I would say it's something good. I mean, why not put them a little bit far away and not disturb anybody if it's possible? However, and now the next question can be in terms of like energy independence and climate change, that this rule might be changed, so, it would be probable, so that you can also build some wind energy closer to the coastline,"

informant #58 – project manager, Germany, pc, March 31, 2022.

"I believe that the wind park area closed for fishing could restore the fish stocks a lot. We don't have cod anymore, for example, and the possibility for fish to come into the wind parking area and to hide there and to get a good base for feeding in this windmill underwater side, where all the marine things can grow, and the fish can come to feed there... I guess it's perfect but not so good for bird conservation. As you know, this offshore wind park can be an obstacle for migration, kill birds, and reduce the feeding grounds; there are many things... If we win on the one side, we can lose the other side,"

> informant #46 – spatial planner, Lithuania, pc, March 10, 2022

"The wind power technology is evolving. Now we have new ideas about floating wind power that should be much less intrusive and have much less impact on the seabed, for example; also, wind parks that should be able to be mobile could be moved around. So I think we're heading in the direction of more compatibility between different interests and objectives, but I guess it's going to take some time,"

informant #23 – MSP researcher, Sweden, pc, February 7, 2022



APPROACH. In Latvia, "we have overlapping biodiversity study areas with our wind farm study areas. This means we didn't have enough data to say these are the best places. Theoretically, it may be that in the environmental impact assessment for some reason - in principle, it should not be -, let's say, it turns out that there is something huge, for example, a bird migration path, and then in one of the areas that are planned, it cannot make a wind farm. It is possible. In principle, an EIA can stop any activity, as it cannot be said that there is 100% confidence. But developers have confidence that the territories are agreed upon. In those territories, developers can trust that other sectors will not be able to raise objections. And if they want to go outside these areas, according to the idea, almost all sectors (except maybe, perhaps, wave energy production) do not have such an opportunity. Wind farms must 'fit' into the marked areas (in orange in our layout). Those 'E' areas are where developers have to put wind farms, and they can't go outside even if there's a better area next door where they theoretically could. But this cannot be done because there has been an agreement between different target groups in the long harmonisation process. And this is the compromise worked out for now. It is binding for licensing. Licenses cannot be issued for wind farms outside the designated areas, even if the development planned elsewhere would be better,"

> informant #7 – governmental official, Latvia, pc December 17, 2021



**FUTURE TRENDS.** "The so-called 'levelised cost of electricity' – an indicator that determines the mutual competitiveness of different electricity production technologies under different conditions – has improved for offshore wind. Wind and solar power are the two technologies offering the most competitive electricity. The offshore wind might get a new lease of life right now, which could be one reason why many countries are trying to invest more and more actively in wind energy, including offshore wind,"

informant #49 - MSP expert, Latvia, pc, March 22, 2022

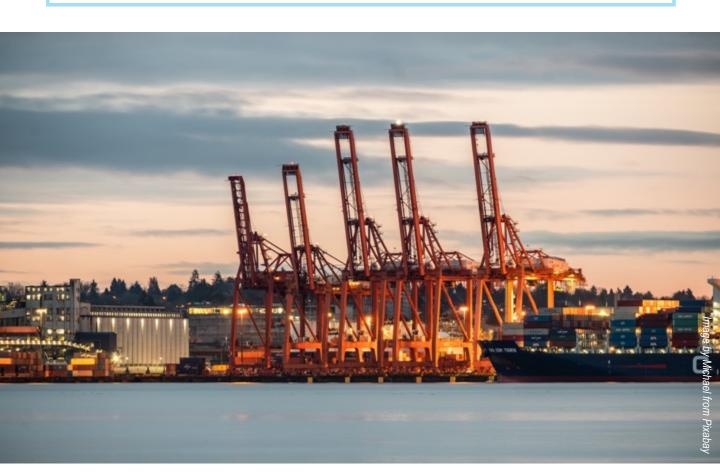
## 4. V. SHIPPING AND PORTS

• Since the industry is internationally governed by the International Maritime Organization (IMO), which also restricts national MSP's planning authority, first-generation marine plans typically assume that existing shipping routes are a "given." Thus, MSP is essential to ensure that crucial passageways are kept clear of all fixed installations.



**BEST PRACTICE EXAMPLE.** In Germany in federal MSPlan "shipping is granted priority over the other spatially significant uses in the priority areas for shipping. When overlapping priority areas for shipping with priority areas for nature conservation, shipping enjoys priority within the framework of the international legal requirements of UNCLOS. On all regularly travelled routes, shipping is as trouble-free and and uncomplicated as possible."

Source: European MSP Platform, 2022d.



<sup>&</sup>lt;sup>1</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references; <sup>2</sup> Ibid, p. 33.

 MSP processes must anticipate future maritime routes and the spatial effects of autonomous vessels. Planners need knowledge of upcoming port and transportation developments to accomplish this. For evaluating current spatial claims and estimating future ones, three factors need to be considered: "i) the trajectory, i.e. the coordinates of ships' movements; ii) the width of the space required (depending on traffic density and vessel size); and iii) water depth in relation to ships' draught."1



**BEST PRACTICE EXAMPLE.** In Åland Islands "the main shipping routes were designated based on previously defined fairway areas and IMO areas as well as airways with a 250 m wide buffer. Other shipping areas were designated based on available AIS line data acquired from HELCOM for shipping traffic for 2019. A density of 150 or more vessels per year was designated as shipping areas in the MSP."

Source: European MSP Platform, 2022c.

"In the EEZ, I would say that the most powerful sector is probably shipping because they have all the greatest legal weight behind them because of UNCLOS. So, shipping is a solid player,"

> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

 Ports often ensure the construction of wind farms, the bringing of turbines, and the use of local labour.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references, p. 33; <sup>2</sup> informant #7 – governmental official, Latvia, pc December 17, 2021; informant #47 – business representative, Latvia, pc, March 22, 2022.

# 4. VI. COASTAL AND MARITIME TOURISM AND RECREATION

- Tourism is one of the most diverse sectors of the blue economy, as it can take many different forms.
- The primary differentiation is between coastal and maritime tourism.
- Coastal and maritime tourism is the second most considerable maritime activity by turnover after maritime transport in the BSR.<sup>1</sup>
- Conflicts between various tourism sectors may result from developing coastal and maritime tourism offers and activities.
- Tourism has positive synergies with nature, although conflicts might appear in protected and particularly sensitive areas for birds and plants.<sup>2</sup>
- Proper tourism planning may present chances to enhance coastal communities' sustainable growth (e.g. the case of fishing tourism).<sup>3</sup>



**IMPORTANT.** "The tourism and recreation sector can benefit from diversification prompted by MSP through: \*) time (ensuring availability and accessibility of intermodal connections throughout the year) \*\*) space (ensuring a sustainable number of visits and sustainable effects on the ecosystem of new and existing infrastructure; regulating/disincentivising peak visits) and \*\*\*) new activities (providing a template for increasing synergies and managing tensions across activities between tourism and other sectors)."

Source: UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references, p. 33.

- Coastal and maritime tourism is one of the maritime activities, best-known by the public and societal perception towards it is usually upbeat.
- In all BSR countries, coastal tourism falls into the big interest area of the municipalities since it generates substantial income.

<sup>&</sup>lt;sup>1</sup> EC. <a href="https://blue-economy-observatory.ec.europa.eu/index\_en">https://blue-economy-observatory.ec.europa.eu/index\_en</a>, data of 2019; <sup>2</sup> informant #58 – project manager, Germany, pc, March 31, 2022; <sup>3</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references.

#### 4. VI. COASTAL AND MARITIME TOURISM AND RECREATION

"Coastal tourism is for us, for Germany, quite important, and it's increasingly popular over the last ten years or maybe even more to do domestic holidays. People really love to go to the Baltic Sea, to the beaches and do their holidays there, and this has become even more with Corona crisis,"

> informant #58 – project manager, Germany, pc, March 31, 2022

"The offshore wind farming is coming very fast, and then the fishermen feel that they have to kind of... it is always their industry that has to move. And as a very traditional way of using the sea area, they feel that they might not find their place, and it's a real challenge,"

informant #34 – regional official, Finland, pc, February 24, 2022

"People that live in Vellinge, most of them moved here because of the nature. It's wonderful nature. It's a little bit forestry. It's sandy, with the ocean and beautiful views. So, people have a keen interest in nature, but they are also interested in recreation. They would like to experience nature. And recreation and tourism come together somehow because people come here as tourists. They come here to sunbathe, to go fishing and bathing. That's how the tourists are here. So, tourism is nature-based. So, there's a link between nature, recreation, and tourism. They're staying together. Without nature values, we don't have recreation. and we don't have tourism. So, they depend on each other,"

> informant #9 – municipality official, Sweden, pc, January 11, 2022

#### 4. VI. COASTAL AND MARITIME TOURISM AND RECREATION

Along the traditional activities such as travelling along the coast, despite the harsh
conditions of the Baltic Sea, additional ways for people to spend time at the seaside
include sailing, surfing, diving, kayaking and birdwatching.<sup>1</sup> Although these activities are
less significant, they show the diverse nature of maritime and coastal tourism.

"Tourism is number one. Recreation and beaches are number one. For Polish people, this is summer on the beach. We still have this concept in Poland of 'changing climate', it's called. It makes no sense, but in common sense, it's like, 'I'm changing the climate for two weeks', meaning that, you know, "I will breathe different air than daily." So, in the sense of recreation and the beach, there is, I would say, full awareness in the country. But it doesn't go beyond the recreation and the beach or very little beyond that."

"Even though the municipalities do not have an authority on the sea area, they're still interested. They want clean beaches. They want clear bathing water because they have a significant economic income related to the sea. Because we have such an extensive coastline, coastal tourism is a big economy, so the municipalities are very interested in how we use the coastal area because they want to promote their municipality for tourists from Germany or Sweden or just from other parts of Denmark. So, they have a lot of interests, even though they're not an authority on the sea."

informant #44 – MSP researcher, Poland, pc, March 15, 2022 informant #64 – MSP researcher, Denmark, pc, May 12, 2022

<sup>&</sup>lt;sup>1</sup> informant #14 – spatial planner, Estonia, pc, January 21, 2022; informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022; informant #22 – spatial planner, Estonia, pc, February 3, 2022; European MSP Platform, 2022b.

# 4. VII. EMERGING SECTORS



- Emerging maritime uses are Marine Renewable Energy (such as Ocean energy, floating solar power and offshore hydrogen generation), Blue bioeconomy and biotechnology, Desalination, Maritime defence, security and surveillance, Research and Infrastructure (submarine cables, robotics).
- Even though these industries have a lot of promise for job growth, sustainability transition, and economic progress, they are either not yet mature (like ocean energy other than oil, gas, and offshore wind) or for which data is not readily accessible to the general public (like maritime defence, safety, and security).<sup>2</sup>
- Two sectors, <u>"4. VII.A. Pipelines and cables"</u> and <u>"4. VII.B. Maritime cultural heritage"</u>, as examples of emerging industries, are considered within this subsection.

## 4. VII.A. PIPELINES AND CABLES

- Pipelines and cables usually form part of a transboundary infrastructure.<sup>1</sup>
- The specific planning of linked routes is typically not the responsibility of MSP authorities, but cable and pipeline corridors are included in certain nations' MSPlans. In some circumstances, this affects the accessibility of cables and pipelines as well as general data availability.<sup>2</sup>
- National authorities must coordinate and cooperate to increase the harmonisation of legislation, licensing requirements, and data sharing across countries.<sup>3</sup>

"Then, of course, this main job is connecting to the grid. It's a very costly thing. You cannot pop up wind farms wherever you want offshore because they need to be connected with sufficient infrastructure. So, this requires a lot of investment from the government side. But then, of course, the land is a completely different scope of projects,"

informant #38 – business representative, Lithuania, March 10, 2022

"Energy as a cable, as the network, as the grid connections are not established at all. So, now we're planning offshore business, but we don't have facilities to accommodate the energy from the sea. So, we need a lot of improvements on the land. Those all things are not solved yet,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

"The grid is another question, and it's a tricky one. You're right, it's costly to build the grid, and they need the windmills... they still need some stations between land and windmills which collect all the electricity from the sea and import it to the land. And now, thus grid question is also growing because, for example, Aland island will have a grid to Sweden and Finland, and maybe to Estonia. And they want to export the electricity. They don't need that much electricity on Aland island, which they will produce, so they have to export it, and who is building these grids... I don't know. And also, it's tricky where these grids can land on the land. It also demands some planning,"

> informant #27 – government official, Finland, pc, February 15, 2022

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022d; <sup>2, 3</sup> UNESCO-IOC/EC, 2021 after elaborated by MSPglobal with inputs from multiple experts and bibliographic references.



**BEST PRACTICE EXAMPLE.** In Germany, federal MPSPlan "the designation of reservation areas for submarine cables ensures that other uses consider their special protection requirements. The designation on territorial water gates ensures that the pipelines are routed through certain gates to the territorial waters."

Source: European MSP Platform, 2022d.

 When creating the infrastructure links, it is crucial to consider the effects of installing pipelines, cables, and pipes on the maritime environment and underwater cultural heritage.<sup>1</sup>



**BEST PRACTICE EXAMPLE.** The Federal Maritime and Hydrographic Agency (Germany) developed an offshore grid plan for the Baltic Sea EEZ in 2013, identifying the electricity connections required for offshore wind farms, the potential for shared converter platforms for multiple wind farms (clusters), and the cables to be bundled in corridors towards land, as well as a strategic, forward-looking approach.

Source: European MSP Platform, 2022d.

<sup>&</sup>lt;sup>1</sup> European MSP Platform, 2022c.

### 4. VII.B. MARITIME CULTURAL HERITAGE

- The peculiarities of the area, sensitivity to and enhancement of cultural values, accessibility of areas, natural assets, and importance of the open sea landscape, as well as marine livelihoods, must all be preserved when developing the areas.<sup>1</sup>
- In MSP language, these aspects are denoted under the unified term "Maritime Cultural Heritage" (MCH).



stakeholder inclusion regarding the cultural heritage, so the planner invited people from each county to understand what is valuable for them, and as a result, most of the coasts came out to be very valuable, and this is also too much for the MSP. These results were fed into the local comprehensive plans, so this information can still be used. This was one thing they did. They also mapped the heritage like SPAs and museums like this wider land-sea interaction. This is what they did. And then, they also had this red map open on the web page of MSP where everybody could give their input for the MSP. So, this kind of things, and I think, people had a lot of opportunities to give their ideas and to have this cultural heritage included in one way or another,"

informant #37 – MSP researcher, Estonia, pc, March 7, 2022.

 MCH is frequently disregarded within the MSP framework because it is often difficult to define within a specific location and needs to be mapped. But because it represents their heritage and history, regional communities place particular importance on MCH. Additionally, MCH provides excellent chances for the growth of regional and local blue economy initiatives (such as sustainable tourism).<sup>1</sup>



**BEST PRACTICE EXAMPLE.** In Germany, in federal MSPlan "the general principle for minimising the adverse effects of economic uses on the underwater cultural heritage aims to ensure that appropriate measures are taken at an early stage in consultation with the technical authorities in order to avoid or minimise negative impacts."

Source: European MSP Platform, 2022d.

#### 4. VII.B. MARITIME CULTURAL HERITAGE

"For example, there has been a discussion that if this tunnel between mainland and Muhu island will be built somewhere in 20 years, that this could also be one of the like catalysts for underwater tourism, that it's interesting to look at from the tunnel on the seabed and... also shipwrecks that we have quite a lot around the island."

"For the first time in Finland, we have these ecologically important underwater areas mapped by Finnish Environmental Institute. And MSP is the first plan that they are shown. They are not conservation areas legally, but there are areas where the most important underwater natural values are. So, we have shown them in MSP. So, I think, for example, that is one aspect that helps this discussion and pointing out these important areas that may be in the future will be all concerned."

informant #22, Estonia, pc, February 3, 2022 informant #35 – regional official, Finland, pc, February 24, 2022



## 5. I. EXAMPLE NO. 1: ECOSYSTEM SERVICES

"It was one of the first attempts of the European context where the mapping of ecosystem services was already integrated into the official planning process,"

informant #13 - spatial planner, Latvia, pc, January 20, 2022

- Ecosystem services are closely related to the EBA (ecosystem-based approach). The EBA for the management and planning of human activities, endorsed by the Convention on Biological Diversity (CBD), within the operational guidance and 12 principles (known as the Malawi principles) on the application of the ecosystem approach, establishes a conceptual framework for the integration of the ecosystem services in both MSP and the strategic environmental assessment (SEA).<sup>1</sup>
- The European Commission and EU Member States created an initiative called Mapping and Assessment of Ecosystems and their Services: Indicators for ecosystem assessments under Action 5 of the EU Biodiversity Strategy to 2020 (MAES). MAES aims to develop a knowledge-based system on ecosystems, including their state and the services they offer. Such information is crucial for promoting biodiversity goals and creating other EU policies on water, the climate, agriculture, forestry, marine resources, and regional planning.



BEST PRACTICE EXAMPLE. "Several projects have worked to enhance the mapping and assessing of marine ecosystem services. BONUS BASMATI project (https://bonusbasmati.eu/) has also implemented a case study related to Latvia's marine waters, focusing on establishing the links between marine components, **functions** and services ecosystem (https://doi.org/10.1016/j.ocecoaman.2020.105229). The Interreg Baltic Sea project, Land-Sea-Act (https://land-sea.eu/), demonstrates the application of ecosystem service approach in the land-sea planning interface. The Interreg Central Baltic project, MAREA (http://marea.balticseaportal.net/), improves knowledge by developing spatial models on ecosystem service supply in the Gulf of Riga. The work on marine ecosystem services and its application in MSP will be continued in the new Horizon Europe project 'SELINA Science for Evidence-Based and Sustainable Decisions about Natural Capital' (2022-2027)."

Source: European MSP Platform, 2022d.

<sup>&</sup>lt;sup>1</sup> Veidemane et al., 2017 after Secretariat of the CBD, 2004 and CBD, 2004; <sup>2</sup> Veidemane et al., 2017; Maes et al., 2014.

 Latvian MSPlan was "the first attempt in the Baltic Sea region to apply the MAES in an official MSP process at the national level."



**BEST PRACTICE EXAMPLE.** In Latvia "characterisation of the ecosystem services was based on the CICES v4.3 (2013)<sup>2</sup> classification system proposed by the EC MAES working group<sup>3</sup>, where ecosystem services are grouped in three categories – provisioning, regulation and maintenance, and cultural services.

The biophysical mapping of ecosystem services was carried out using the available spatial data sets as well as hypothetical assessments based on expert knowledge. The ecosystem service maps were used to assess the impacts of the MSP scenarios and propose solutions for permitted seas uses:

- The regulation and maintenance services were mapped using the benthic habitat map.;
- 2) Provisioning services were mapped on two different maps fish for food and algae and their outputs;
- 3) Cultural services were assessed in relation to possibilities for marine tourism and leisure activities on the coast."

Source: European MSP Platform, 2022h.

"There is a protected marine area, and therefore there are kelp, green algae, pink algae, Northern mussels, fish, and various plankton communities. The final ecosystem service is, for example, the fish that humans eat — cod. To have cod on the table for humans, you need this kelp, which forms a spawning ground. And then one can get the final service - fish on one's table. Or, for example, algae, washed-out macrophyte algae, which can be used as fertiliser. So the rock cover and the soil composition provide a place where algae grow. Algae are the spawning grounds for fish and can be used as fertiliser. If we have balanced all this development, then in principle, we should not have beaches with huge amounts of washed-up algae or blue-green algae blooms. These are the so-called ecosystem services that man obtains as a benefit from nature,"

informant #17 - MSP researcher and practitioner, Latvia, pc, January 24, 2022

<sup>&</sup>lt;sup>1</sup> Veidemane et al., 2017, p. 399; <sup>2</sup> CICES – Common International Classification of Ecosystem Services. Available at: <a href="http://cices.eu/">http://cices.eu/</a>; <sup>3</sup> MAES - Mapping and Assessment of Ecosystems and their Services, EC working group for implementation of the Task 5 of the EU Biodiversity Strategy 2020.

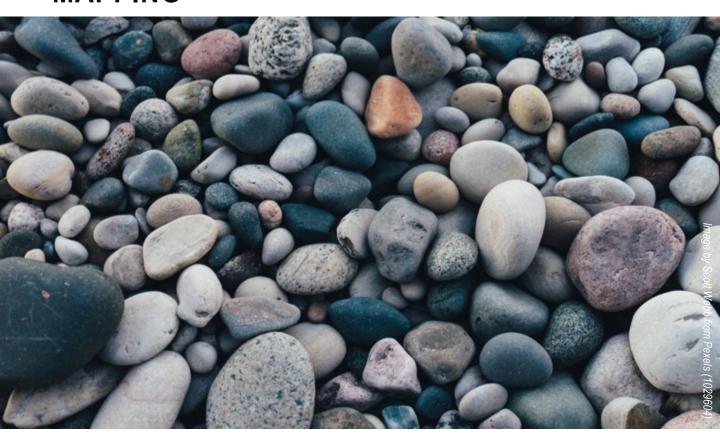
#### 5. I. EX.1: ECOSYSTEM SERVICES





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- For more information, views and reflection, see also <u>"6. XI. Challenge No. 11: Coexistence with nature areas."</u>

# 5. II. EXAMPLE NO. 2: CULTURAL (VALUE) MAPPING



- As the political process, MSP requires balancing different values, covering all three domains: environmental, economic and social.
- In this regard, it is essential to identify different values that can be both tangible and intangible by their nature, altogether forming the notion of maritime cultural heritage (MCH)<sup>2</sup> (see also <u>"4. VII.B. Maritime cultural heritage"</u>). In the last case, the identification of the values may pose different challenges.
- However, in a few countries during the MSP's first planning round (in most cases), innovative approaches concerning the identification of values have been applied.
- Among them, the approaches of Estonia to value mapping and Finland to archipelago mapping serve as outstanding examples.

<sup>&</sup>lt;sup>1</sup> Lees et al., 2023.



### IMPORTANT.

- "What does the sea mean to you?"
- "What does the sea mean to you historically and culturally?"
- "How does the sea reflect your identity, inspire you, enrich you aesthetically and emotionally?"
- "How does maritime culture differ regionally?"

Source: Lees et al., 2023.

"At the beginning of the MSP of Estonia, we mapped the values in the sea area. What does the sea mean? And many things that brought up were peace, the end of the world, being on the edge of the world, quiet, and freedom. So, there are many kinds of symbols attached to the sea area. We also did like the Instagram mapping for Saaremaa because many other things are not ready objects, and maybe people don't tell you about them. But Instagram gives you an idea of the visual picture of what people value. Sometimes they don't even put words to it. And so, you also understand pictures and tags. These are literally the values that they voluntarily assigned to face,"

map marking; if you see that, it shows the characteristics of Finnish geo/biographical features. We have this archipelago with high natural values but a lot of human activities, too. And these areas still suffer from distances to other towns and so on. So, we have to try to support the livelihoods of these archipelago areas, the people who live there, and the marine environment. It's a special task, so we chose to have this kind of map marking. And we explicitly say that in the future, through more detailed planning, you have to consider many aspects to support the livelihood of the archipelago area. So, maybe this shows that it's not just about the offshore wind farming and the major strategies, you know, climate change adaptation strategies, but it's more detailed local level living conditions that we try to support,"

"We also have this kind of archipelago

informant #29 – spatial planner, Estonia, pc, February 17, 2022 informant #34 – regional official, Finland, pc, February 24, 2022



# PORTRAIT OF MARITIME AREAS IN LÄÄNE COUNTY

#### CURRENT MAIN USES:



### In Lääne county's maritime areas:

in Ladie County's mantime areas.		areas.	os of whol	e Estonian:	100%
280 000 ha o	of maritime aeas		1% maritime areas		
46 ha o	f mineral deposit	ts			
274 p	professional coastal fishermen				rmen
60 s	shipwrecks shipwrecks				
4 s	shipwrecks for divers 5% shipwrecks for divers				
5 P	ports				
12 s	small harbors				
18 c	cargo ships in port of Rohuküla (2017)				
3 986 v	visits of ferry in ports (Rohukūla and Sviby) (2017)				
8 fi	fish processing units				
78% o	of coastline covered by valuable landscapes				
33% n	national defence areas in sea				
19% n	nature conservation areas in sea				
11% W	well and very well suited areas for aquaculture				
6 - 7.5 m/s s	strong winds				
Special featur	es:				
SUNCOAST AND BEAUTIFUL SANDY BEACHES		SUMMER HOLIDAY HAAPSALU	TOWN -	GRAZING ON THE ISLETS  REED CUTTING AND	
LOW SEA AND BAYS		COASTAL SWEE	ES		
OLD FISHING VILLAGES		BIRDWATCHIN	G	REED ROOFS	
Symbols: EU MSP Platform for the	e European Commission		•н	ENDRIKSON & KD	RAHANDUSMINISTERAUM

### County picture example from the Estonian MSP.

Source: Lees et al., 2023.



BEST PRACTICE EXAMPLE. "The consideration of MCH in the Estonian MSP involved four broad themes of activities: (i) a baseline study, (ii) thematic coastal cultural mapping workshops, (iii) online participatory mapping ("Call for ideas") and (iv) continuous stakeholder engagement. [..] As a result of thematic county-level workshops, each coastal county group agreed on keywords (keyword mapping) that they believe characterize regional maritime culture. These keywords include the most important local cultural values and different roles of maritime culture, such as the most important local stories, legends, traditions, events, emotional values (e.g. sunset coasts), local celebrities, historical locations and nature. [..] Baseline study and thematic coastal workshops provided input on regionally special features, strengths, and potentials that are highlighted in county portraits that accompany Estonian MSP."

Source: Lees et al., 2023.



- Gee, K., Kannen, A., Adlam, R., Brooks, C., Chapman, M., Cormier, R., Fischer, C., Fletcher, S., Gubbins, M., Shucksmith, R., Shellock, R. 2017. Identifying culturally significant areas for marine spatial planning, Ocean Coastal Management, 136 (2017) 139-147, <a href="https://doi.org/10.1016/j.ocecoaman.2016.11.026">https://doi.org/10.1016/j.ocecoaman.2016.11.026</a>
- Pennino, M.G., Brodie, S., Frainer, A., Lopes, P.F.M., Lopez, J., Ortega-Cisneros, K., Selim, S., & Vaidianu, N. 2021. The missing layers: integrating sociocultural values into marine spatial planning, Frontiers in Marine Science, 8 (July), 1-8. <a href="https://doi.org/10.3389/fmars.2021.633198">https://doi.org/10.3389/fmars.2021.633198</a>
- For more information, views and reflection on broader public involvement, see also <u>"6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders."</u>

# 5. III. EXAMPLE NO. 3: STAKEHOLDER INVOLVEMENT



- Stakeholder involvement is listed as one of the MSP's minimum requirements (MSP Directive, Article 6.2(d)).
- According to Article 9.1 of the Directive, Member States must ensure mechanisms for public participation by providing information to all interested parties, consulting relevant stakeholders and agencies, and the general public early in preparing MSPlans.
- In the BSR practice, as regards stakeholder engagement, most countries have done more than the law requires. In this regard, various solutions were applied, starting from the "Call for ideas" web map in Estonia<sup>1</sup> and Cooperation Network in Finland<sup>2</sup> and ending with the scientific advisory board in Germany<sup>3</sup> and the trans-disciplinary national MSP Working Group in Latvia<sup>4</sup>.

<sup>&</sup>lt;sup>1</sup>Lees et al., 2023; informant #37 – MSP researcher, Estonia, pc, March 7, 2022; <sup>2</sup> European MSP Platform, 2022c; <sup>3</sup> European MSP Platform, 2022d; <sup>4</sup> European MSP Platform, 2022h.

"In Finland, these regional land use planners that also do the MSP had established connections to almost any actors that need space in the sea area. They have established connections with, for example, ports and tourism activities, infrastructure needs, offshore wind farming they have planned for decades, and wind farming on the land. It was easy to reach those long-lasting connections and keep those stakeholders involved and engaged in our process because when the regional council invited us to participate in the regional-level workshop, for example, we had many representatives from maritime industries. So, I think it's easier in Finland than if you have a national actor that is more faceless, so to say: they don't know each other beforehand, so it's harder to engage the stakeholders, but for us, it was a success story – the engagement of stakeholders along the whole coastline, I'd say. The whole collaboration what we did with stakeholders; there was something, I think, as a good practice that we'd like to show,"

informant #34 – regional official, Finland, pc, February 24, 2022

"The stakeholder engagement we had throughout the process, I think, has been good and ambitious. We put a lot of time into that. I mean we also evaluated the process, and there are many positive reactions to it. I think that was a good thing. Now the knowledge about MSP is much better among the stakeholders. Before, we had to focus a lot on what MSP is, what it is good for; some stakeholders were not interested – didn't see what's in there for them; I mean, that is not the case now."

informant #51 – governmental official, Sweden, pc, March 24, 2022

"It was such a very open process. We had already established good cooperation with various interested parties through the various projects and activities of the pilot. The "big" players and representatives of industries such as wind farm developers, port representatives and fishermen attended the meetings. Local activists or local entrepreneurs were also represented. Meetings were organised according to regional principle in several rounds. So perhaps the positive moment, which is an example of good practice when talking about the case of Latvia, is the involvement of the public,"

informant #13 – spatial planner, Latvia, pc, January 20, 2022



BEST PRACTICE EXAMPLE. A vehicle for information sharing has been the maritime spatial planning cooperation network. On <a href="https://www.merialuesuunnittelu.fi">www.merialuesuunnittelu.fi</a>, anyone with interest in MSP can join the network. The network had 380 members when the plan was finished, and they were kept updated via frequent newsletters.

Source: European MSP Platform, 2022c; informant #27 – governmental official, Finland, pc, February 15, 2022.

"There was information that there's a possibility that it will be a 140 kilometres wall of wind farms in some particular area. It's tough to manoeuvre there, so the fishermen were devastated. And thanks to the public meetings and the MSP process, we somehow connected the wind farmers with fishermen and brought this to the discussion. This was crucial in the way that these two groups could understand each other and their needs and why it looks that way and not the other,"

informant #53 – spatial planner, Poland, pc, March 28, 2022 "There was some informal involvement before the formal consultation, which was good. So, for example, there were some workshops with just sectors on their own, and then there were some of the consultations to talk about different planning directions, and a Scientific Advisory Board was created,"

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022



BEST PRACTICE EXAMPLE. For example, in Germany the elaboration of the MSPlan for the German EEZ in the North and Baltic Seas, "the process was accompanied by a scientific advisory board with representatives from research and legal institutes. In parallel to the process, information meetings and expert hearings were held at various times in the parliamentary arena."

Source: European MSP Platform, 2022d.

"That's good what they did concerning the national authorities where they had their thematic working groups, and they seem to have been rather successful where they mobilised the national authorities from zero interest in marine spatial planning to providing data and discussing cross interactions between different sectors. I mean, if you think it's a country with several thousands of kilometres of coastline and to invent and create the participation process, it's an achievement in itself - both the plan and the process,"

"Developers of the MSPlan contacted the heads of local municipalities and asked them sort of like to advertise those stakeholder meetings on their Facebook pages, for example. You could see that they weren't looking for ways to get that 'tick in the box', but they wanted to hear people. And even in the first stage, the planners also ordered the research from social scientists so that they would go into the field and speak with local people and introduce them to the plan. So, they tried to involve local people also into the process. I was positively surprised by how well it was made during this process. And people were heard out, and there were many meetings in the first years. And looking at how they have responded to all the input and criticism, I'd say that they have done a good job,"

informant #31 – MSP researcher, Sweden, pc, February 18, 2022 informant #28 – NGO representative, Estonia, pc, February 16, 2022

 Public participation has a formal component as well as an informal one. And through communication on several channels (not just written communication but also other personal chats or internet-based communication), that informal one may become even more crucial.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> informant #8, Germany, pc, December 22, 2021.

"In Finland, we found it very important that we didn't plan any actual plan map before we had discussed it with the stakeholders. First, we gave them blank paper to write maps, so to say, the possibility to explain what sea areas would be the most important to them and why and how they use them. We have zoned our sea in three zones, and how would they zone the sea area; what are the most important land-sea interactions for their sector; what kind of ecosystem services do they use? And after that, we built, drew the map and then showed them the map, so, it was essential for us to give room for collaboration, give room for negotiation,"

informant #34 – regional official, Finland, personal communication, February 24, 2022

"The maritime spatial planning process was sufficiently open to every representative of society, not only representatives of specific industries. For example, in the maritime planning process, it was also ensured that regional distribution was carried out in several meetings, to which, even then, the fishermen of the nearest local places could come and express their opinion since it was not the case that only, say, here in Riga, representatives of fishermen's organisations spoke something together with representatives of the ministry. It was good that it was such an open and extensive consultation process here,"

informant #63, Latvia, pc, May 12, 2022



**BEST PRACTICE EXAMPLE.** In Latvia, "the national legislation relating to procedures on how to develop MSP includes a provision on the establishment of a trans-disciplinary national MSP Working Group. The aim of setting up such a working group is to ensure the regular involvement and participation of public authorities, planning regions, coastal municipalities and members of the society in the maritime planning process. The Working Group is led by the Ministry of the Environmental Protection and Regional Development."

Source: European MSP Platform, 2022h.



BEST PRACTICE EXAMPLE. In Latvia, "the national legislation relating to procedures on how to develop MSP includes a provision on the establishment of a trans-disciplinary national MSP Working Group. The aim of setting up such a working group is to ensure the regular involvement and participation of public authorities, planning regions, coastal municipalities and members of the society in the maritime planning process. The Working Group is led by the Ministry of the Environmental Protection and Regional Development."

Source: European MSP Platform, 2022h.



**BEST PRACTICE EXAMPLE.** "In February 2021, the German MSP Authorities, including the Federal Ministry of the Interior, Building and Community, BSH, and Regional Spatial Planning Authorities, presented MSP in Germany to an international audience during the MSPglobal event "Sharing national MSP practices worldwide: Germany."

Source: European MSP Platform, 2022d; material available at: <a href="https://www.mspglobal2030.org/events/online-seminar-on-sharing-national-msp-practices-worldwide-germany-en-fr-es/">https://www.mspglobal2030.org/events/online-seminar-on-sharing-national-msp-practices-worldwide-germany-en-fr-es/</a>)

• For more information, views and reflection on broader public involvement, see also "6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders."

# 5. IV. EXAMPLE NO. 4: CONTRIBUTIONS TO THE LOCAL COMMUNITY

• In Sweden, when a company applies to develop a wind farm on land or at sea, it may choose to allocate a portion of the annual production to the local community. This payment permits the company to use the municipality's shore or the area around the village. One can stipulate in the permit that the company must pay the municipality where the wind farm was developed between 1 and 3% annually. These are not the shares; instead, it looks like financial contribution to the local community where the wind farms are located.<sup>1</sup>



**BEST PRACTICE EXAMPLE.** There is the fund created by Eon (responsible for the sea-based wind farm), which is managed by the municipality of Borgholm. Each year the municipality can provide applicants with a grant of  $5000 - 20\ 000$  EUR from it. Money should be spent to improve the sea and/or coastal environment.

Source: example provided by informant #1 – regional official, Sweden, pc November 30, 2021.

"The income is shared to a certain extent with the local municipality, which motivates local municipalities to accept those wind farms better. This is a very new policy. It came out just this year, as I know. As I understand, the municipalities get money directly from the electricity used or money earned from it. Such kind of scheme is going to be implemented,"

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022

- A similar practice as in Sweden will be implemented in Estonia<sup>2</sup> and Latvia<sup>3</sup>.
- For more information, views, reflection and broader perspective of the topic, see also
   <u>"4. IV. Offshore renewable energy"</u> and <u>"6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders"</u>

<sup>&</sup>lt;sup>1</sup> informant #1 – regional official, Sweden, pc November 30, 2021; <sup>2</sup> informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022; <sup>3</sup> informant #16 – business representative, Latvia, pc, January 24, 2022.

# 5. IV. EXAMPLE NO. 5: ALGAE HARVESTING AND PROCESSING



Algae are among the marine resources included in the Blue Bioeconomy. The
development of macroalgae is a new industry that can grow biomass without requiring
non-renewable fertilisers, diminishing freshwater supplies, or competing for arable
land to produce energy, consumables like plastics, and food.<sup>2</sup>



BEST PRACTICE EXAMPLE. The Estonian company Est-Agar produces red algae furcellaran. Distinctive furcellarans manufactured in Estonia can be found in the zefir (a soft confectionary), created by Laima, the best-known sweets and chocolates brand in Latvia, the marmalade under Estonia's sweets brand Eesti Kalev – and more and more in the goods of the cosmetics business. Currently, Est-Agar is the only company that produces furcellaran. Still, there is another potential for firms that specialise in marine products, notably with the aid of research from Estonia's institutions.

Source: Tuul, 2022; informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022.

 About 11,000 distinct types of plants that grow in saltwater conditions worldwide are called seaweed.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>KTH, 2021, GRASS project; <sup>2</sup>UN, 2020.

### 5. V. EX.5: ALGAE HARVESTING AND PROCESSING

"Between Hiiumaa and Saaremaa, we have this seaweed and algae harvesting because some companies produce different seaweed products in both Hiiumaa and Saaremaa. So, we also have a special area for seaweed harvesting. This is like an old traditional argument between Hiiumaa and Saaremaa on who owns that sea area. That's also very like a special use of sea areas."

informant #22, Estonia, pc, February 3, 2022

"In Sweden, we started [targeted algae farming activities] in 2014, and now it's 2021. I mean, these are seven years, and then we started with research, and now we have these three companies that have started in Sweden. I think that's good. It's growing, and there is a lot of interest in it. So, I would say in the coming years there will be a speedy exponential growth,"

informant #2 – MSP researcher and practitioner, Sweden, pc, December 2, 2021

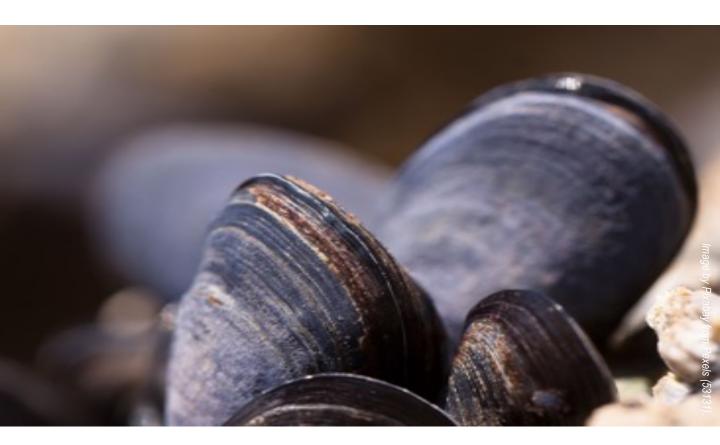
"Aquaculture influences local restaurants, so it is like a new product from our local things. So, that kind of given impact is also on the land, on the land tourism sectors. In a way, it can be more symbiotic and influence the food culture in Saaremaa, and you can have interesting new products being developed here. So, you can have mussels or algae food industries and material industries that use the algae. So, in a way, if we look at these aspects, it can have a beneficial kind of land-sea interaction that directly also benefits the people,"

> informant #29 – spatial planner, pc, Estonia, February 17, 2022

• For more information, views and reflection, see also "4. II.B: of Aquaculture."

## 5. VI. EXAMPLE NO. 6: MUSSEL FARMING

- Since the Baltic Sea has a low salinity level, mussel farming poses particular challenges. The low salinity level does not allow the mussels to grow sufficiently big for human consumption. In turn, the use of mussels for animal feed could be more economically viable.<sup>1</sup>
- However, there are some attempts to grow the mussels in the Baltic Sea, too. One of them is an experimental research pilot platform for mussel farming for ten years. It is located in Kalmar Sound between the mainland and Öland island, a bit South of Kalmar city, and the municipality owns it. Still, care is taken by the private entrepreneur. The municipality pays the entrepreneur a certain amount yearly to manage and look after the mussel farm. The primary purpose of this mussel farm is to develop new businesses and take up nutrients from Kalmar Sound.<sup>2</sup>



<sup>&</sup>lt;sup>1</sup> informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022; informant #7 – governmental official, Latvia, pc December 17, 2021; informant #5 – municipality official, Sweden, pc, December 10, 2021; <sup>2</sup> informant #5 – municipality official, Sweden, pc December 10, 2021.

• The experimental research pilot platform of mussel farming in Kalmar is an exceptional demonstration of the collaboration between private and public domains.

"I think if we are going to change, in this case, food production systems into something more circular economy, we need to support those entrepreneurs who want to be there, to go into new markets because, of course, it is not going to be viable business from day one. It will take a long time to try different products and make errors. If you go and start doing something untraditional, there is no market from the beginning. But to create a more sustainable economy, I think the private and the public entities must cooperate. That's the only way,"

informant #5 – municipality official, Sweden, pc December 10, 2021

For more information, views and reflection, see also <u>4. II.B. of Aquaculture.</u>

# 5. VII. EXAMPLE NO. 7: CONDITIONAL RESERVATION AREAS

- For example, in Germany, there are a few kinds of conditional priority areas and conditional reservation areas, such as the Harbour Points Reservation Area, which is only in force from May to August. Additionally, there is the priority area, which will only be operational until 2035, after which it will revert to a reservation area if no longer required. Furthermore, there is a small space dependent on whether or not it is necessary for shipment. If it is not essential for shipping, it could become a location for an offshore wind farm.<sup>1</sup>
- In Estonia, after the opposition from the fishermen, the competent authority had to put
  extra effort into organising thematic working groups with fishermen to find their concerns
  and views on the further development and spatial designation in the framework of MSP.
  The interim government decision determined that several areas planned for offshore wind
  development should be converted into reserve areas.<sup>2</sup>
- In Poland, "reserved areas for the future" are designated in the name of future generations. These areas are possible to use for mobile uses such as shipping or tourism, but it is not allowed to put there any constructions which might affect the area's use for future generations. The space should be left open and empty until it is decided what is the best use. In the next planning cycle, the status of these areas might be revised.3



**BEST PRACTICE EXAMPLE.** "I think [good practice] is the whole concept of reserving areas for future unknown uses. We have this kind of area, a part of sea areas dedicated for the primary use of certain uses. So, we also have these areas reserved for future unknown uses, which is quite a large part of our sea area. This is another concept which I personally like,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022.

<sup>&</sup>lt;sup>1</sup> informant #3, Germany, pc, December 3, 2021; <sup>2</sup> informant #20 – governmental official, Estonia, pc, February 1, 2022; <sup>3</sup> informant #50 – spatial planner, Poland, pc, March 23, 2022; informant #53 – spatial planner, Poland, pc, March 28, 2022.

### 5. V. EX.7: CONDITIONAL RESERVATION AREAS

"The reserve areas mean that until 2026 we don't use them; we just see how the plans and proceedings are going with the other areas. And if in 2026 there will be areas that could not be used as a whole, or we have other research there and so on – if from those processes comes out that we cannot use them, then we use the reserve areas [for offshore wind energy production]. So, that was the compromise, and this was a situation we didn't see in the first steps of the MSP process,"

informant #20 – governmental official, Estonia, pc, February 1, 2022 "We guard reserved areas for future, for future users. It also aligned with our approach to leave as much space as possible for the next generations. So, if you look at the map of the Polish plan, many of these areas are for future use. In those areas for the future, there is not allowed to licence construction that would be permanent. It can be used differently right now, but you cannot build anything which makes this area not usable for the future."

informant #57 – governmental official, Poland, pc, March 30, 2022

• For more information, views and reflection, see also <u>"6. X. Challenge No. 10: Space and mult-use (MU)."</u>

# 5. VIII. EXAMPLE NO. 8: APPROACHES TO MULTI-USE (MU)

- According to a modern view, MSP for resource and space sharing between two or more
  activities to benefit all users represents a vital aspect of a holistic multi-use (MU)
  approach to maritime space. Conceptually, it shows how the MSP process includes the
  MU conceptualisation forming it as one of the dominating principles of MSP.<sup>1</sup>
- Based on the de facto high number and diversity of sectors, one of the significant challenges facing maritime activity growth is their cohabitation. Although hazards and conflicts are associated with the current need for marine space, there are also opportunities related to "informal coexistence" and the process of maritimization, as well as an escalation of competition for already available maritime space.<sup>2</sup> A condition where at least two maritime sectors or activities are present is called MU, or "being together."<sup>3</sup> According to Przedrzymirska et al. (2021), being together refers to spatial proximity, overlap, concurrence, or economic interaction.
- The definition of MU that is frequently cited in the EU<sup>4</sup> describes it as the sharing of resources in close proximity; it is an "umbrella" term that includes a variety of uses and departs significantly from the idea of exclusive resource rights to have resource-sharing by one or more users<sup>5,6</sup> Such a resource can be exploited directly (such as fishing) or indirectly (such as nature conservation), and it can be biotic (such as fish stocks) or abiotic (such as ocean space, platforms, logistics, and other infrastructure)<sup>7,8</sup>



**IMPORTANT.** MSP "also aims at identifying and encouraging multi-purpose uses, in accordance with the relevant national policies and legislation."

Source: MSP Directive, Recital 19.



**BEST PRACTICE EXAMPLE.** The MULTI-FRAME pilot project will provide the evaluation framework – open source tools for evaluating MU's environmental, economic, and social sustainability potential for decision-makers, legislators, planners, and developers.

Source: SUBMARINER Network for Blue Growth EEIG, n.d.; VASAB Secretariat, 2021e.

<sup>&</sup>lt;sup>1</sup> Neimane et al., 2021; <sup>2</sup> Neimane et al., 2021 after EC, 2021a; <sup>3</sup> Neimane et al., 2021 after Przedrzymirska et al., 2021; <sup>4, 10</sup> EC, 2021a; <sup>5, 7, 10</sup> Zaucha et al., 2016; <sup>6, 8</sup> As interpreted by Neimane et al., 2021; <sup>9</sup> Przedrzymirska et al., 2021.

- MU, which essentially refers to multi-functional and symbiotic mixtures<sup>1</sup>, is based on a conscious (planned) desire to share resources and space across two or more activities for the benefit of all users.<sup>2</sup>
- MU can be ensured in two main methods, as described in experience obtained in the field of MU of marine space<sup>3</sup>: 1) addition of activities, in which a new activity is added in addition to an existing or already produced activity (staggered development);
   2) collaborative development, in which joint activities are developed from the start of the project.<sup>4</sup>
- Even if other mechanisms can help MU advance, such as the market, legislation, and research and development, MSP assists by encouraging MU arrangements when assigning marine areas in MSPlans<sup>5</sup>.6
- The MSP method also encourages discussion about MU and potential future solutions and what activities can coexist and which might not.<sup>7</sup>
- If MU is not initially incorporated in the MSPlan, it is doubtful that the MU concept will be widely used in establishing permit requirements and affecting its granting conditions.<sup>8</sup>
- The practical application of the MU approach to maritime space varies from European country to country and is generally underdeveloped<sup>9</sup> This is because it is still early in the development process, primarily in the trial and pilot phase<sup>10</sup>.<sup>11</sup>



**IMPORTANT.** "Future claims for new activities in the sea will be part of continuing marine spatial planning, with **coexistence as the guiding principle**." <sup>12</sup>

Source: SwAM. 2019. Marine spatial plans for Gulf of Bothnia, Baltic Sea and Skagerrak/Kattegat, 9 (24).

<sup>&</sup>lt;sup>1,5,10</sup> Przedrzymirska et al., 2021; <sup>2,3</sup> EC, 2021a; Przedrzymirska et al., 2018; Schultz-Zehden et al., 2018; <sup>4,6,11</sup> As interpreted by Neimane et al., 2021; <sup>7</sup> informant #43 – governmental official, Denmark, pc, March 14, 2022; <sup>8</sup> Neimane et al., 2021 after VASAB, 2021c; <sup>9</sup> Schultz-Zehden et al., 2018; VASAB Secretariat, 2021e; <sup>12</sup> author's emphasis.

### 5. VIII. EX.8: APPROACHES TO MULTI-USE (MU)

"The Swedish national plan is aiming very much at coexistence. This is one of the important issues in the Swedish plan. If you look at the map, you see bigger letters and smaller letters and the bigger is the priority and the smaller is the second priority and all the others can come if they want and if the area is not used by priority uses,"

"We call it combined use. We saw that the multi-use concept is only in the same area. But our intention or solution was that the combined use is broader: it is like, for example, when you are developing fish farms somewhere in the sea, you need some electricity, and you cannot manufacture the energy anywhere else other than in wind energy areas. And when you are manufacturing the wind energy there, you can use this energy in other places in the sea, when you are developing fish farms or seashells. Therefore, we see that the combined use is not only overlapping different sea uses, but also working together and seeing how we can use each other to have this kind of synergy,"

informant #31 – MSP researcher, Sweden, pc, February 18, 2022 informant #20 – governmental official, Estonia, pc, February 1, 2022

- Several other synonyms to denote MU in practice are used: co- and translocation, multifunctional use, multiple-use, co-use, secondary and additional use, coexistence, and interdependencies, to mention a few.<sup>1</sup>
- In MSPlans of the BSR, different terminology is applied, for example, "coexistence" in Sweden and "combined use" in Estonia.
- The MU approach guarantees, in particular, a decrease in conflicts, effective use of maritime space, and the delivery of socioeconomic and environmental benefits.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Neimane et al., 2021 after Przedrzymirska et al., 2018, 2021; <sup>2</sup> Neimane et al., 2021.

### 5. VIII. EX.8: APPROACHES TO MULTI-USE (MU)

"Thinking about some compensatory mechanism that, for example, a wind farm is made, and strings of algae are pulled out in the middle, and they grow and clean at least the sea. It gives added value, and then the algae can also be collected afterwards, and different products of high added value can also be created from them. But the problem is that making a single infrastructure is often difficult or expensive. Combined use is the future,"

informant #7 – governmental official, Latvia, pc December 17, 2021

"The first one was that we brought a recommendation that if you have areas dedicated to offshore wind energy production, it could be great if the fishermen can also use them. The second thing was that because the national MSP plan was very general and the scale was massive, the problem was that we had problems with some areas because there was a lot of usages there. So, we decided that a multi-use area is created so that it has to be decided which function is primary and which is added here. And because of these multiuse areas, now we are having the smaller scale MSP plans that try to deal with problem,"

> informant #53 – spatial planner, Poland, pc, March 28, 2022

MU "was also one of the recommendations that we made: to take into account all the possibilities for supporting activities there. And that is also today in MSP that everywhere where offshore wind parks are being planned. they need to also plan their aquaculture areas, for example, or blue economy to grow seaweed and also, if possible, then to build special foundations where also new life can immerse under the sea. That has also been written into MSP, but it's not something that the offshore wind developers have to do; if possible, they need to take this into account and in the planning phase, they also need to research the possibilities. Already from the beginning, multi-use was part of the philosophy of MSP,"

informant #28 – NGO representative, Estonia, pc, February 16, 2022

"Polish plan is having multi-use actually in all areas that are designated. For each area, we got the main use, and we've got a list of allowed uses that also can be performed there. So, those areas are overlapping very much, and the multi-use is everywhere where it is possible,"

> informant #57 – governmental official, Poland, pc, March 30, 2022



BEST PRACTICE EXAMPLE. In the Estonian MSP, the phrase "combined use" refers to the deliberate co-use of the marine area inside a single marine space close by. The phrase refers to both the usage of the same infrastructure and the placement of activities in the same body of water. To accommodate all the many applications in the marine space, guidelines are supplied for every area of activity: "Estonia has included the following combined or multi-uses: 1) Tourism, fisheries and environmental protection; 2) Tourism, underwater archaeological heritage, and protection of the environment; 3) Tourism and aquaculture; 4) Wind energy and tourism; 5) Wind Energy and Fisheries; 6) Wind energy and aquaculture."

Source: European MSP Platform, 2022b.

- The MU strategy guarantees, in particular, a decrease in conflicts, effective use of maritime space, and the delivery of socioeconomic and environmental benefits.<sup>1</sup>
- In Poland, MU is approached by assigning the priority use in the framework of which other functions are analysed. They are also allowed there if they do not interfere with the primary function.<sup>2</sup>
- In Finland, the strategic approach is applied, which means the non-separation of different functions when the plan is considered a whole. The areas overlap, and several purposes can fit in one location if they are consistent and complement one another.<sup>3</sup>



**EXPERIENCE GAINED: Germany.** For example, federal MSPlan "specifies for multi-use: insofar as the areas for wind energy EO2-West and EN20 are also designated as reservation areas for research FoN3 and FoO3, fishery research should remain possible in the type and scope in which it has been carried out to date. [..] In the priority areas for nature conservation and divers, raw material extraction and military uses are not ruled out from a spatial planning perspective where reservation areas for raw material extraction and defence are defined."

Source: European MSP Platform, 2022d.

<sup>&</sup>lt;sup>1</sup> Neimane et al., 2021; <sup>2</sup> informant #57 – governmental official, Poland, pc, March 30, 2022; 2 informant #27 – governmental official, Finland, pc, February 15, 2022.

### 5. VIII. EX.8: APPROACHES TO MULTI-USE (MU)

"We have multi-use areas there. All of our areas are overlapping; they are multi-use areas. Of course, it depends on what can be done with other things, but yes. There are multi-use areas. All of them are. Of course, there are some restrictions, for instance, the National Defence areas. And, if something is for National Defence purposes, then maybe you can't put offshore windmills there. But the principle is that our areas are for multi-use,"

informant #35 – regional official, Finland, pc, February 24, 2022 There is "new development of other effective area-based measures that also can be used in MSP, and it can be the area of underwater cultural heritage because, let's say, shipwreck is protected itself, and then there's this area around it, and this is protecting the shipwreck, but it is also protecting the biodiversity probably around it, so this nature protection is the secondary effect of this protection of cultural heritage,"

informant #37 – MSP researcher, Estonia, pc, March 7, 2022

"The multi-use is something that we encourage in our maritime sectors. Of course, we want to show that there are potential places for different kinds of maritime activities in the same place. And I think this is the signal for the multi-use, so to say, now the actors shall consider in more detailed planning whether they can do something together and mutually benefit. So, this is our message,"

informant #34 – regional official, Finland, PC, February 24, 2022 "In this strategic level and scale, we can't show areas just for aquaculture or wind energy production. They can have a lot of activities in those areas, but it was essential to show that these areas could be the best for wind energy production. There are areas where you could have aquaculture. But it's not excluding other activities,"

informant #36 – regional official, Finland, pc, February 28, 2022



BEST PRACTICE EXAMPLE. Multi-Use offshore platforms demoNstrators for boostlng cost-effecTive and Eco-friendly proDuction in sustainable marine activities forms abbreviation of the research project UNITED (2020-2023). Through the establishment of five demonstration pilots (in Belgium, Denmark, Germany, Denmark, Greece, and the Netherlands) in the actual European marine environment, it gives proof of the practicality of ocean multi-use. UNITED aims to: \* address current bottlenecks relating to the large-scale installation of ocean multi-use activities;\* demonstrate business synergies and benefits of ocean multi-use;\* provide a roadmap for deployment in future multi-use sites and potential scaling barriers to be addressed through best practices and lessons learnt."

Source: UNITED, <a href="https://www.h2020united.eu">https://www.h2020united.eu</a>



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"UNITED is meant to demonstrate some ways it could be, what the challenges are, what the lessons learned are, and what the solutions would be. During the project duration, we identified challenges and risks and found perfect solutions and alternatives. The research platform is built exactly like an offshore windmill and is technically well-equipped. We have data transmission onshore. We face the same issues as in the 'real world' when installing an aquaculture system right next to it: determination of location and safety zone around the platform. We also measure water temperature, wind, and wave height. These are very valuable parameters for the aquaculture producers and offshore wind industry representatives if they would be interested in having multi-use with aquaculture. There are also tests on new bio-fueling methods and biological tests done to detect the impact of wind farms on sea birds and bats. I'm doing a lot of research on how long different offshore structures survive; do we have to decommission the wind farms after 20 years, or can we leave them in place for at least 25 years, so the longevity of the offshore structures; the materials discovered for protection or corrosion; what can we do against corrosion. Those are already some solutions, some ideas we can transfer to other countries, as well. Overall, the UNITED project is becoming more and more valuable,"

informant #39 and informant #40 – MSP researchers and practitioners, Germany, pc, March 10, 2022

 The possibilities of MU also include possibilities of synergies with other area-based measures.



**IDEA.** The European Commission's recommendations call for making MU mandatory for sector-specific activities, identifying its potential benefits in the context of strategic environmental and social assessment, and identifying pre-defined multifunctional areas in the MSP process (such as marine protected areas) that are suitable for MU development (e.g., access to communication networks).

Source: Neimane et al., 2021 after EC, 2021a.

For more information, views and reflection, see also <u>6. X. Challenge No. 10: Space and mult-use (MU).</u>

# 5. IX. EXAMPLE NO. 9: SOCIAL IMPACT ASSESSMENT

- At least in Europe, MSP policymaking frequently clearly integrates environmental (protection) and economic (blue economy) components and goals, but social issues are only very infrequently if ever, discussed or addressed.<sup>1</sup>
- However, in this regard, the MSP practice in the BSR presents innovative approaches to introducing social aspects through social impact assessment as an initial step.

"We also worked with the socioeconomic analysis and assessments of the plans, I mean, regional studies, and the plan proposals as a whole. We did something additional, not only the environmental aspects but also the socio-economic ones. We also developed a method for it in the big-scale plan for which we didn't have such a method ready. So. I think that's a good thing. And also, according to sustainability assessment, we developed the Symphony tool that is good to use and tries to ensure the assessment systematically. I think the approach is good and can be further developed as well,"

informant #51 – governmental official, Sweden, pc, March 24, 2022

"We have the social impact assessment, and in this social impact assessment, we tried to explain how the marine culture developed and what the different means of marine culture are. For example, marine culture can be tangible but also intangible. And when thinking about intangible things, these things are usually essential to the local people or the culture. Therefore, we developed different cultural portraits. In different counties, we developed these kinds of portraits that give information on the intangible values from the cultural side that are essential to this county or these local people. This is something that feeds into the local government's plans, and it's something that can give the meaning of how these people are living and what are there like, what are their values that we have to preserve,"

informant #20 – governmental official, Estonia, pc, February 1, 2022

• For more information, views and reflection, see also <u>"6. VI. Challenge No. 6: Consideration of social aspects."</u>

<sup>&</sup>lt;sup>1</sup>Saunders et al., 2019.

# 5. X. EXAMPLE NO. 10: ASSESSMENT OF VISUAL IMPACTS

 Visual impacts are one of the most contested issues, especially concerning offshore wind energy and aquaculture.

"Visual pollution. Proving visual pollution is complicated because wind farms can be a pretty thing to one person and an ugly thing to another. So, it's never stopping,"

informant #38 – business representative, Lithuania, March 10, 2022

"During the MSP process, it was also that a new methodology for this visual impact of these wind turbines was created. I think especially Saaremaa people were saying that it ruins our sunset. I think it's 100 pages. But then again - this visual impact assessment is put as an... it's not an obligation, but the municipalities... if somebody wants to develop a wind park, they have to negotiate with the municipality. And then the municipality has this supporting material, how to assess the visual impact, but they don't have to use this methodology that was worked out, but they can,"

informant #15 – maritime researcher, Estonia, pc, January 21, 2022

"Municipalities are quite sceptical about developing wind energy parks because these landscape elements are essential. They do not want any constructions to be visible in the sea because it is customary for the coast to be undeveloped. It's a question of value, the way people look at it. Where there is a higher population density and nature is sufficiently altered, it is possible that people's understanding is different. And again, the second understanding of people in places where nature is more preserved, where there are many forests and an unexplored coastal strip, is even different. I think there's that value system there,"

> informant #21 – MSP researcher, Latvia, pc, February 1, 2022

• There is a need to elaborate visual impact assessment methodology or criteria to overcome subjective bias. In this mode, the methodology of offshore wind farm positioning about landscape and its visual impacts has been prepared in Estonia.<sup>1</sup>



- AB Artes Terrae OÜ. (Hiob M., Kalberg H., Ots K., Orru K., Annuk A.). 2020/2021. Meretuulikuparkide arendamise edendamiseks visuaalse mõju hindamise metoodiliste soovituste juhendmaterjal [Guidance material on methodological recommendations for visual impact assessment to promote the development of offshore wind farms]. Available at: <a href="https://www.fin.ee/media/4718/download">https://www.fin.ee/media/4718/download</a>
- For more information, views and reflection, see also <u>"6. VI. Challenge No. 6: Consideration of social aspects."</u>

<sup>&</sup>lt;sup>1</sup> informant #29 – spatial planner, Estonia, pc, February 17, 2022.

# 5. XI. EXAMPLE NO. 11: CUMULATIVE IMPACTS AT THE NATIONAL LEVEL

- Cumulative impacts at the sea level are among the most challenging MSP issues.
- The causes of the cumulative impacts are human-induced activities and their distribution in the same sea area. If these activities are concentrated in one place, their total effect can inevitably impact the natural environment.
- Many projects (including their changes or extensions) are small in themselves (individually). Still, in general, they can significantly impact the environment, even though each project would not have such an impact on the environment.<sup>1</sup>



BEST PRACTICE EXAMPLE. "The Swedish national agency SWaM – the National Agency for Marine and Water Management – uses this web-based tool called Symphony. This tool is used to look at different impacts from various competing activities in the marine environment and tries to sort of gorge or assess the best combination of activities in different areas. So, I think in Sweden, there is fairly advanced thinking, at least around how to optimise the use of different areas."

informant #23 – MSP researcher, Sweden, pc, February 7, 2022.



**BEST PRACTICE EXAMPLE.** In Germany, in the federal MSPlan knowledge from SEA was incorporated in relation to "the main cumulative environmental impacts as well as the principles established to avoid the impacts are presented in relation to the protected assets, as follows: soil, benthos, and biotopes; fish; marine mammals, especially harbour porpoises; seabirds and resting birds; migratory birds."

Source: European MSP Platform, 2022d.

<sup>&</sup>lt;sup>1</sup> Neimane, 2019; Glasson et al., 2012; <sup>2, 4</sup> Glasson, 2012; <sup>3</sup> Odum, 1982; <sup>5</sup> as interpreted by Neimane, 2019.

### 5. XI. EX.11: CUMULATIVE IMPACTS AT THE NATIONAL LEVEL

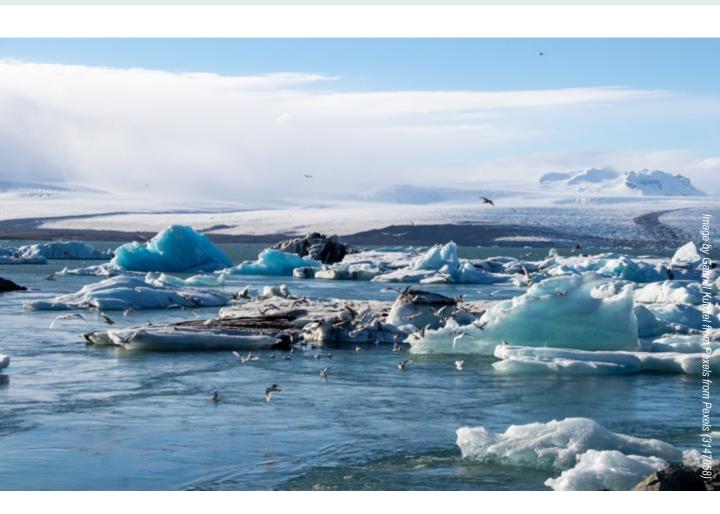
- In this case, the interrelationship of the effects leads to the significance of impacts, and an "ecological response" can occur when the carrying capacity of the environmental medium(s) is exceeded as a result of the exposure to the cumulative effects and manifests itself in an unexpected and dramatic form (for example, floods). It is also known as the "tyranny of small decisions" or "death by a thousand cuts" 3.4
- The strategic environmental assessment (SEA) should include the cumulative impact assessment. Most frequently, cumulative impact assessment is included in the environmental impact assessment (see also <u>"6. IX. Challenge No. 9: Cumulative impact at sea level"</u>).

<sup>&</sup>lt;sup>1,3</sup> Glasson, 2012; <sup>2</sup> Odum, 1982; <sup>4</sup> as interpreted by Neimane, 2019.

# 5.XII. EXAMPLE 12: INTEGRATING CLIMATE CHANGE (CC) ISSUES

"I really think that climate change is a problem, and we must act on that. So, I try to develop the project because of that,"

informant #12 – business representative, Estonia, pc, January 19, 2022



• In the BSR, it is expected that climate change (CC) impacts at the end of the century will be on the same scale as all other environmental pressures combined, so this will undoubtedly have a significant effect on the marine environment.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>VASAB Secretariat [Markus Meier], 2021g.

- The latest data provided by the Baltic Earth expert network on CC EN CLIMA prepared new assessment reports available in the form of 10 articles, published in Earth System Dynamics and Climate Change in the Baltic Sea Fact Sheet evidence the sea surface temperature increase of 1.10C (RCP2.6) to 3.20 C (RCP8.5) by the end of the century, compared to 1976 2005, sea ice will further decrease, acidification and hypoxic areas will still be present with an increasing trend in the Baltic Sea. In turn, freshwater supply, wind, global sea level rise, and salinity show a widespread trend, but no robust changes were identified.¹ Similar findings are reported by the project EN CLIMA.²
- MSP can provide a toolset with significant benefits in terms of both CC adaptation and mitigation<sup>3</sup> transparency for both developers and environmental managers, with more predictability in permitting, planning, and management of expected future ocean uses<sup>4</sup> and increased knowledge of the true implications of CC for local adaptation and governance<sup>5</sup>.
- At the same time, MSP isn't supposed to resolve climate change problems and is one tool among several used in marine management to address that.<sup>6</sup>
- As it has been admitted elsewhere<sup>7</sup>, the planning must be based on the most up-todate knowledge and regularly incorporate new climate change knowledge.



BEST PRACTICE EXAMPLE. Climate change science in the BSR is addressed through the scientific network Baltic Earth. Baltic Earth is an independent scientific organisation that arranges workshops, conferences, and assessments, which means that a global overview is given, similar to the IPCC, of what will happen with climate change in the Baltic Sea. The first assessment of the Baltic Earth (at that time – called BALTEX) was the BACC author team book in 2008, with an update in 2015. Baltic Earth prepared new assessment reports available in 10 articles, published in Earth System Dynamics and Climate Change in the Baltic Sea Fact Sheet, produced by the expert network on climate change EN CLIMA.

Source: VASAB Secretariat [Markus Meier], 2021g.

<sup>&</sup>lt;sup>1</sup> VASAB Secretariat [Markus Meier], 2021g; <sup>2</sup> VASAB Secretariat [Johannes Paulsen], 2021g; <sup>3,6</sup> VASAB Secretariat [Joacim Johannesson], 2021g; <sup>4</sup> Douvere, 2008; <sup>5</sup> Craig, 2012; <sup>7</sup> VASAB Secretariat, 2021g.

### 5.XII. EX.12: INTEGRATING CLIMATE CHANGE ISSUES

- Although climate science has many assumptions and uncertainties, it can provide the best available data and global and regional models to calculate CC impacts.<sup>1</sup>
- There is a consensus in the MSP community about the cross-cutting nature of climate change and the ever-present aspect from the drafting to the plan, the whole planning process up to implementation and application of the MSPlans.<sup>2</sup>



**BEST PRACTICE EXAMPLE.** The climate refugia concept is also introduced in Swedish MSPlans as a designated area where a particular consideration of management and permitting needs to be taken – although there are not a lot of prescriptions, this area signals to take proper care for the authorities.

Source: VASAB Secretariat [Joacim Johannesson], 2021g.

"One example from the Swedish MSP process that's been highlighted both within the MSP global the UN and UNESCO guidelines and on the European level – it's the work with the integrating climate issues in the MSP and the designated climate refugia and the work with the cumulative environmental effect,"

informant #26 – governmental official, Sweden, pc February 10, 2022 "I also think overall, compared to other countries; an innovation is the climate aspects considered in the marine spatial plan,"

informant #31 – MSP researcher, Sweden, pc, February 18, 2022

<sup>&</sup>lt;sup>1</sup> VASAB Secretariat [Johannes Paulsen], 2021g; <sup>2</sup> VASAB Secretariat [Joacim Johannesson], 2021g.

### 5.XII. EX.12: INTEGRATING CLIMATE CHANGE ISSUES

- However, one of the most outstanding examples of the integration of climate change issues into MSP in the BSR is the approach of the Swedish MSPlans, which introduced the concept of "climate refugia."
- The concept of "climate refugia" has been developed under the Pan Baltic Scope project.
  This concept, among other things, identifies areas important in the future for ecosystem
  values and services.
- Climate refugia include creating so-called "planning polygons" to organise conservation, mitigation, and enhancement (restoration).<sup>1</sup>
- Using climate refugia, aggregate ecosystem service maps can be produced that show where to avoid certain maritime activities and ecosystem disturbance to facilitate future ecosystem services.<sup>2</sup>

"Climate refugia is the ecosystem; the species will change according to warmer water conditions, for instance, their habitats. The idea is to build certain species of marine protected areas so that they can also survive in future in a warmer world. It is a matter, not the people. It is based on species dynamics, on the ecosystem, so to build a network of interconnected marine protected areas that protect the ecosystem also in a warmer world,"

> informant #59 – MSP researcher, Germany, pc, April 4, 2022

"I think one of the good practices is how we addressed nature conservation and climate aspect to some extent. It's a good example because we have developed more than already protected areas. So, we identified other areas where consideration has to be taken to nature values. As a part of this, we have the climate refugia, which is like – ok, only one part of addressing the climate issues, but still one way. I think that's a good thing,"

informant #51 – governmental official, Sweden, pc, March 24, 2022

<sup>&</sup>lt;sup>1</sup>VASAB Secretariat [Oskar Tornquist], 2021g; <sup>2</sup> VASAB Secretariat [Johannes Paulsen], 2021g.

### 5.XII. EX.12: INTEGRATING CLIMATE CHANGE ISSUES



- Törnqvist, O., Jonsson, P. R. and Hume, D. 2019. Climate refugia in the Baltic Sea: Modelling future important habitats by using climate projections. *Pan Baltic Scope Project.* Available at: <a href="http://www.panbalticscope.eu/wp-content/uploads/2020/02/PBS-Report-Climate-Refugia-in-the-Baltic-Sea final.pdf">http://www.panbalticscope.eu/wp-content/uploads/2020/02/PBS-Report-Climate-Refugia-in-the-Baltic-Sea final.pdf</a>
- Wåhlström, I., Pålsson, J., Törnqvist, O., Jonsson, P., Gröger, M. and Almroth-Rosell, E. 2020. Bringing climate change into ecosystem based management of the sea: Data and methods for the Symphony framework: Symphony a cumulative assessment tool developed for Swedish Marine Spatial Planning. Norrköping, SMHI. (Report Oceanography No. 68). Available at: <a href="http://smhi.diva-portal.org/smash/record.jsf?pid=diva2%3A1412059&dswid=-592">http://smhi.diva-portal.org/smash/record.jsf?pid=diva2%3A1412059&dswid=-592</a>
- For more information, views and reflection, see also <u>"6. XII. Challenge No. 12: Climate change (CC) considerations."</u>

# 5. XIII. EXAMPLE NO. 13: MSP AS THE KNOWLEDGE BASE

In several countries, MSP became a new knowledge base in different terms.

"What else I like is that the government managed to do and fund quite a lot of research in sea areas. In previous planning procedures, research was not a top priority; everything was mainly decided on existing information. In this MSP case, the birds and the ice and wind conditions were investigated... As a result, it not only gives us good input for the MSP but also provides us with a better understanding of our sea environment as a whole. Because they collect the information, and it's also usable in other projects or plans or impact assessments,"

informant #22 – spatial planner, Estonia, pc, February 3, 2022

"MSP allowed us to concentrate the knowledge of the maritime environment, to gather it into the one really... not that maybe database but at least the one institution, for now, the data holder, data updater, data manager etc.,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

"In our region, I got to impact that when we finished our MSP process, and we had the real plan we can take a look at, and we can share that this is our plan; we can get very much information on the sea here. Somehow, the participants, the people, and the stakeholders noticed that we are situated along the coast, and they understood the importance of the sea to our economy and region. And that, I think, was an excellent result from the MSP process. I think it also gave a good background to all other processes. Now the MSP is offering the sea part to discussion and bringing all that information to the other processes,"

> informant #32 – regional official, Finland, pc, February 21, 2022

#### 5. XIII. EX.13: MSP AS THE KNOWLEDGE BASE

"This MSP process gave a lot of opportunities for researchers to collect data and, as I told you, my colleagues were doing the maps, which are the good areas for growing certain species, and some other institutes were giving their input. So, scientific institutions and private companies were included a lot in this process. The data collection was quite intensive for this MSP,"

informant #37 – MSP researcher, Estonia, pc. March 7, 2022 "And in Denmark, MSP starts directly from the coastline. But, I mean, the best example, I think, now is that... and that was not in the MSP process, but that was these two organisations that got together and then decided on the shared goal of where to suggest these 10% strictly protected areas. And we have the environmental agency, sorry, it's called Nature Protection organisation, the national one and then the Fishing Organisation also on a national basis, they got together, and they came up with shared goals,"

informant #52 – MSP researcher, Denmark, pc, March 24, 2022

"During the development of the MSPlan, however, existing information was gathered, for example, about known sunken shipwrecks and other areas. It was then digitised and is now available in some form to other users who know how to use these programs. At least some existing information was shared more widely than just within one institution,"

informant #48 – business representative, Latvia, pc, March 22, 2022

- As a result, the MSP:
  - Creates a "one-stop-shop" knowledge database content-wise and institutionally;
  - Ensures information for and serves as a valuable data tool for stakeholders and entrepreneurs;
  - Feeds in the information for other processes, plans, projects and relevant impact assessments;
  - Affects the activities of the interested organisations and is the ground for further initiatives.
- For more information, views and reflection, see also <u>\*6. XIV. Challenge No. 14: Data and knowledge availability.</u>

## 5. XIV. EXAMPLE NO. 14: TRANSBOUNDARY PROJECTS

- The EU has established several projects to disseminate information about MSP development and design among its Member States. Most such projects are funded through EU financing schemes. The objective is to facilitate consistency among the different MSPs within a marine basin, experience, and knowledge transfer.
- As a result, participation of the BSR countries in the transboundary projects added the transboundary dimensions to the domestic MSP processes (for example, Baltic SCOPE, Baltic LINes, Pan Baltic Scope).<sup>2</sup>
- Most countries in the BSR have used the opportunity to establish MSP pilot plans or integrate the development of official MSPlans in the framework of transboundary projects. For example, Lithuania organised additional public consultations at the national and international levels while implementing the PartiSEApate project.<sup>3</sup>

"The projects provide excellent info.
The projects are very good at
increasing collaboration and
networks and interaction between
national level key partners and
various other groups,"

"The support of European funds certainly helped us. It can also be noted that it helps in improving the quality. It would certainly be a worse plan if we didn't have fund support. The availability of data would be less, the quality of expertise would not be as high, and everything would be much more complicated,"

informant #30 – MSP researcher, Sweden, pc, February 18, 2022

informant #7 – governmental official, Latvia, pc December 17, 2021

<sup>&</sup>lt;sup>1</sup> EC, 2022b; <sup>2</sup> European MSP Platform, 2022h; <sup>3</sup> informant #41 – spatial planner, Lithuania, pc, March 10, 2022.



### IMPORTANT. The most significant transboundary projects in the BSR:

- BaltSeaPlan (2009 2012) "worked on marine spatial planning within the scope of the EU's Maritime Policy by developing national marine strategies for the Baltic Sea region, in the light of HELCOM's marine spatial planning recommendation."
- Baltic SCOPE (2015 2017) centred on two case studies: 1) the Southwest Baltic case – Sweden, Denmark, Germany, and Poland and 2) the Central Baltic case – Latvia, Estonia, and Sweden. The project meant intensive transboundary collaboration between competent authorities at the national level.
- Pan Baltic SCOPE (2018 2019) focused on 1) cross-border collaboration and consultation to strengthen national MSP procedures,
   2) promoting the use of the ecosystem-based approach and data sharing, and 3) including land-sea interactions in MSP. The project created a planning forum to serve as a single platform for discussion on specific planning concerns recognised by planning authorities and regional organizations.<sup>3</sup>
- PartiSEApate (2012 2014) focused on establishing models for how MSP in the Baltic Sea region can be performed through transnational intersectorial collaboration with land–sea integration, cross-border consultation, ecosystem-based strategy and participation by various stakeholders.
- Capacity4MSP (2019 2021) served as a forum to strengthen the ability of MSP's stakeholders, policymakers, and decision-makers through increased interaction and knowledge sharing.
- Land-Sea-Act (2019 2021) focused on the land-sea interactional aspects of MSP and Blue Growth, intending to bring together stakeholders involved in coastal management and planning, solve MSP and Blue Growth challenges around the Baltic Sea, and develop a multilevel Blue Growth governance agenda.

Source: European MSP Platform, 2022e, 2022h.



BEST PRACTICE EXAMPLE. "The Interreg project "Baltic LINes: Coherent Linear Infrastructures in Baltic Maritime Spatial Plans" (2016-2019) supported Latvian MSP in further developing MSP requirements in relation to the shipping and energy sectors, including involving stakeholders in scenarios for shipping and offshore development in Latvian waters and communicating with neighbouring countries on transboundary coherence for energy and maritime transport."

Source: European MSP Platform, 2022e.

 The European Maritime Fisheries and Aquaculture Fund (EMFAF, formerly EMFF) is one of the financing sources for MSP cooperation initiatives in EU maritime basins. 15 projects totalling €25 million across all EU sea basins had received funding from the EMFF by 2021.¹



 Pilot plans prepared due to the projects often were not adopted formally (except in some cases, for example, in Estonia, where pilot plans are legally binding). Instead, they have been utilised, for instance, for capacity building and testing methodology, as well as, "in subsequent decision making as the source of the best available knowledge"<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup> EC, 2022b; <sup>2</sup> European MSP Platform, 2022g.



**BEST PRACTICE EXAMPLE.** During BaltSeaPlan, a pilot MSP was made for the Latvian territorial sea and EEZ waters of the Baltic Sea. It was an exercise for real planning while practising stakeholder involvement in the actual planning process.

Source: European MSP Platform, 2022e; Ruskule A., Veidemane K. Developing a Pilot Maritime Spatial Plan for the Western Coast of Latvia. 2011. BaltSeaPlan Report 16. Available at: <a href="https://maritime-spatial-planning.ec.europa.eu/sites/default/files/1">https://maritime-spatial-planning.ec.europa.eu/sites/default/files/1</a> baltseaplan 16 final1.pdf

"The Baltic SCOPE project was exciting, if only from that point of view... yes, everyone had some individual fragments of experience, but in general, that project showed very well how important such transnational projects are, which allow some systematicity and integrity to be introduced into it in marine spatial planning because the Baltic Sea is still a closed lake... in fact, it is a lake, with a very fragile ecosystem, and in fact, the pronounced dominance of any one sector can negatively affect not only the opportunities of other sectors, but the environment itself... basically, the environment is the most important thing in this case, environmental development opportunities,"

informant #49 – MSP expert, Latvia, pc, March 22, 2022



**BEST PRACTICE EXAMPLE.** Under the aegis of HELCOM, the EU-funded "Plan Bothnia" (2010 - 2012) pilot project focused on cross-border MSP between Sweden and Finland. The planning encompasses the maritime areas of the Bothnian Sea between the two countries and the territorial seas beyond the baselines and the EEZs. After the study, a pilot plan for MSP in the Bothnian Sea was presented.

Source: EC, 2022h.

#### 5. XIV. EX.14: TRANSBOUNDARY PROJECTS



- Baltic Scope (2015-2017), project reports and deliverables available at: <a href="http://www.balticscope.eu/events/final-reports/">http://www.balticscope.eu/events/final-reports/</a>
- Pan Baltic Scope (2018 2019), project reports and deliverables available at: <a href="http://www.panbalticscope.eu/">http://www.panbalticscope.eu/</a>
- Heinrichs, B., & Gee K. 2012. Necessary common minimum requirements for Maritime Spatial Planning (MSP) in the Baltic Sea. Plan Bothnia project. Available at: <a href="https://vasab.org/wp-content/uploads/2018/06/minimum requirements-2.pdf">https://vasab.org/wp-content/uploads/2018/06/minimum requirements-2.pdf</a>
- For more information, views and reflection, see also <u>"6. XIX. Challenge No. 19: Transborder collaboration"</u> and <u>"6. XX. Challenge No. 20: Challenges of cross-basin comparisons."</u>

# 5. XV. EXAMPLE NO. 15: REGIONAL LEVEL PERSPECTIVE

- Regional level perspective is based on the regional approach to the MSP on the country level.
- This is a specific country example from Finland, and its applicability to other contexts needs to be tested (see more <u>"3. IV. Finland: The Finnish MSP system"</u>).
- Similarly, a delegation of coordination roles to Country Administrative Boards in the MSP has been done in Sweden¹ (see more <u>"3. IX. Sweden: The Swedish MSP system"</u>).
- Experts from other countries have also recognised that the regional level might be one of the approaches to make it applicable.

"When somebody from the national level is telling how to plan and how to do things and somehow guiding, then it's not that effective. The regional participants don't feel it's their plan: they don't get involved much. But when they can do the planning itself or be involved themselves, then it's more effective. There's some ownership: they feel that it's their plan. And then, they can use their knowledge and bring it to the process. It's better. I think this regional perspective that we had, was one reason why they were so active because they thought that this is their sea, and they have the knowledge of the sea and this area,"

"From my point of view, I've been thrilled that we had this combination of 8 regional councils doing this planning; the cooperation has been fantastic. It's been very nice. We have an excellent planning crew, planning team and planners. We have had a lot of meetings lot of discussions. We have deepened our co-working. And also, one more is that we found the right flying level on the correct scale and between the strategic plan and the MSP map. But it's as a result of this excellent cooperation between the planners. Maybe the keyword is the co-working process."

informant #32 – regional official, Finland, pc, February 21, 2022 informant #36 – regional official, Finland, pc, February 28, 2022

<sup>&</sup>lt;sup>1</sup> informant #31 – MSP researcher, Sweden, pc, February 18, 2022.

"I like our system that as regions we make those plans, so, we are people who are working and living and planning these areas, where we live. Maybe, we have more intense relationships between the stakeholders, and maybe we're more approachable than if the plan is made nationally and if we had some governmental-level planning system. So, maybe stakeholders and normal people are more easily connected with us as planners. At least in Finland, it's an excellent system, and it works in our culture,"

informant #35 – regional official, Finland, pc, February 24, 2022

"We have three different levels in Denmark. We have the state, then we have regions, and then we have municipalities. I think the municipalities should be involved way more than they have been, but I'm not sure if every single municipality was in charge of a little piece of their marine area, it would be a good way to do it, either. So, the regions might be a solution or, you know, that you have divided or shared tasks that maybe the municipalities should be in charge of the stakeholder involvement and come up with a proposal for the state or something like that. And then the state would submit it in the end. It could be different kinds of setup,"

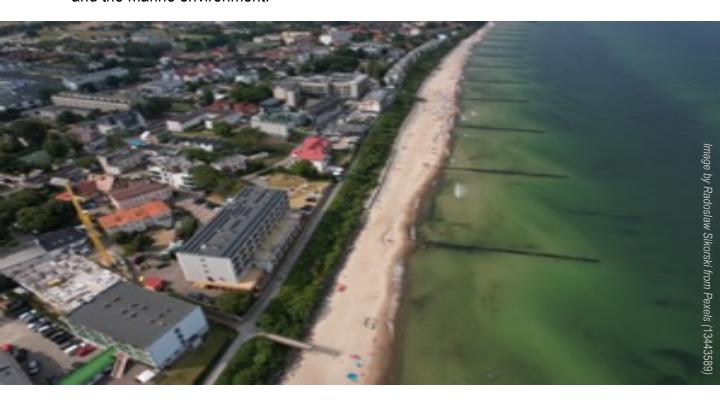
informant #26 – governmental official, Sweden, pc, February 10, 2022

"When we have a strategic document, it's important that now the same planners are doing the strategic MSP to the territorial seas and EEZ. And then, they are conducting a legally binding land use planning that covers the territorial seas. So, you can see how MSP might have and should have a kind of indirect steering effect on the regional land use planning that is legally binding. And it guides the more detailed planning done by municipalities that also plan legally binding land use plans for territorial seas, but it's more detailed planning. So, considering the implementation phase, I think this was a sage decision to give these planning responsibilities to the regional councils. It was a great exercise for all planners and all actors in any development procedures as sector policies because, at the regional level, they also have these established connections to any actors, maritime sectors, and the actors in the marine space. And comparing the situation, I can't see that happening if a national actor tried to contact all the relevant actors. So. now afterwards, after the hard collaboration work, I say this was a good decision. And I can't think of any better decision considering Finnish conditions."

> informant #34 – regional official, Finland, pc, February 24, 2022

# 5. XVI. EXAMPLE NO. 16: LAND-SEA INTERACTIONS OR INTERFACE (LSI)

- Nowadays, the discourse on governance for land-sea interactions or interfaces (LSI) is closely entwined with that on MSP, using multi-scalar and cross-sectoral governance frameworks.<sup>1</sup>
- Because marine and coastal activities are frequently intertwined, understanding LSI is crucial to delivering MSP successfully.<sup>2</sup>
- Therefore, there is a need to link coastal and maritime planning initiatives since coastal and marine areas frequently have hazy boundaries. Aiming to coordinate policies and provide coherence for territorial operations, particularly for coastal areas (made up of LSI), "planning systems" might be developed in this way.<sup>3</sup>
- As new and emerging maritime industries use the coasts as staging areas, both the
  use of the sea and the coastal areas are constantly intensifying. At the same time, the
  co-evolution of these two uses is increasing the stress and burden on coastal areas
  and the marine environment.<sup>4</sup>



<sup>1</sup> Neimane, 2021; <sup>2</sup> VASAB Secretariat, 2021f; <sup>3</sup> UNESCO-IOC/EC, 2021; <sup>4</sup> Neimane, 2021 after Schlüter et al., 2020.

"Simply, it is impossible to do proper coastal management without proper sea planning. It is quite self-evident that the sea has to be included in coastal management and management of the coastal waters. So, thinking about the coastal seas requires also thinking about what's happening in the adjoining land. So, there has to be an interaction between the management of both – sea and land. I want to state this clearly: ICZM is not a part of MSP. But MSP and spatial planning, in general, are critical, in fact, indispensable for proper realisation of ICZM,"

> Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

"We have land-sea interactions, for example, these ecological corridors between sea areas and inland areas. And then for traffic, we also have harbours and boats and these routes in the inland. So, it all works together. We have different aspects of land-sea interaction, and it's an important aspect of our plan. Land-sea interaction is not that easy, but we have tried our best at this first plan and regional plans. But, of course, we can improve, and there's always room for more discussions and operation. But I think it's easier since we have the same institution that plans the sea area, coastline, and inland. So, it's easier than if we had separate institutions and plans. But it's not easy, I'm not saying that, but it's easier,"

> informant #35 – regional official, Finland, pc, February 24, 2022



BEST PRACTICE EXAMPLE. In Latvia, in 2016, the National Long-term Thematic Plan for Public Infrastructure Development in the Baltic Sea Coastal Area (coastal plan) was adopted. Connecting the coastal plan and MSPlan, which specify territories and sectors, ensures that the condition of the land-sea interactions (location of cables, concerning the ports and transport) is met, one of the MSP Directive's minimal requirements.

Source: informant #7 – governmental official, Latvia, pc December 17, 2021; MSP Directive (Recitals 9, 16, 18, Arts. 4.2, 4.5, 6.2(a), 7.1; for more, see Neimane, 2021, also Neimane and Puzulis, 2022, forthcoming.

#### 5. XVI. EX.16: LAND-SEA INTERACTIONS OR INTERFACE (LSI)

"We have this coastal protection zone in the sea and the so-called coastal belt on land. These two areas are already considered a zone in which there are some interactions, both physical and social, all kinds of possible interactions you can imagine. So, they have to be considered all the time together. And authorities are responsible for the management of these two things. On land, it's municipal self-government; on the other side, the Maritime Administration is responsible for the sea. But they have to work together, and they are required by law to reach agreement. It's not just to take the opinion into account. They have to agree,"

"The Maritime Office prepares a maritime plan. And at some point in the procedure, it has to get the agreements from some specific organisations like the Ministry of Environment, the Head Office of Cultural Protection or the President of the particular city that is at the coast... so, here we can have this land-sea interaction covered, let's say because the Maritime Office has to have this plan agreed by the President of the city or the commune who is preparing the local zoning plans on land. And it also works in the other way. When the local authority prepares the local zoning plan on land, it needs to get the agreement from the Maritime Office. So, we've got this, let's say, the connection between the plan on the land and the plan on the water. And theoretically, it should work perfectly, but in practice, mainly because of the time difference between the preparation of land plans and water plans, it is not always connected perfectly because some local zoning plans were prepared in the 90s even. And now, it is hard to connect the new maritime spatial plan with the old local zoning plans prepared by the local authorities. So, I guess that mainly because of the time difference and the scale, it is still difficult to get this land-sea connection perfectly,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

informant #50 – spatial planner, Poland, pc, March 23, 2022



BEST PRACTICE EXAMPLE. "So, joining [land and marine plans] together and showing that it's not sea like water; it's heritage, our resources, our creations, our coastal area, and, of course, development of our sea part... it is essential... When you show that everything is together, it's not a separate part of the country. What's happening in the sea can become the reason or consequence of something happening on the land, especially in Klaipėda or close cities to the sea. It could be as an individual plan, but it's still part of our country, so how can we exclude it, and why would we exclude it? It's like excluding some of the districts. So, I think it's quite logical, but it doesn't necessarily have to work in other countries,"

Source: informant #61 – spatial planner, Lithuania, pc, April 5, 2022



BEST PRACTICE EXAMPLE. "Land-sea interactions were addressed and studied in the Interreg Baltic Sea Region transnational cooperation programme project, Land-Sea-Act, and its Latvian Case study of the Southwestern Kurzeme coast (https://land-sea.eu/trade- offs-and-balanced-use-of-land-sea-resources-latvian-case/). The main results are an interactive tool – Land-Sea Act Explorer as well as a report on spatial planning solutions, which would balance the national interest for development of the offshore renewable energy with the local community interest in maintaining the coastal landscape and allowing tourism development."

Source: European MSP Platform, 2022e.

For more information, views and reflection, see also <u>"6.XIII. Challenge No. 13: Land-sea interactions or interface (LSI)."</u>

### 5. XVII. EXAMPLE NO. 17: SCENARIO WORK

- Along with visions, forecasts, strategies, prospective road maps and action plans, one
  of the terms used to convey a future-focused, strategic aspect of planning is scenariobuilding.<sup>1</sup> A spatial sea use scenario shows how maritime space will be used based on
  future goals, objectives, and presumptions.<sup>2</sup>
- Scenarios appear to be crucial for comprehending both the reality of promoting colocation amongst marine uses and the aspirations of various stakeholders towards integration within the MSP process.<sup>3</sup> Therefore, a vital component of the MSP process is creating various spatial sea use scenarios since it paves the way for deciding how the territory will change throughout the chosen period.<sup>4</sup>
- Alternative spatial scenarios should be considered part of an MSP process, and one should be chosen as the plan's objective.<sup>5</sup> It is not a precise science to define and predict future circumstances. Unlike mapping actual conditions, the maps created to show future situations do not have to reflect "exact" locations. They should instead highlight patterns, trends, and directions.
- However, even if one scenario is formally chosen as a target to be attained, it is unlikely to stay fixed entirely. Instead, it may evolve and be adjusted in light of realities and shifting priorities that emerge as plan-making proceeds, not to mention during efforts to implement a plan once it is finished.<sup>6</sup>

"We made these scenarios for the future, three different kinds of scenarios for our area. So, I think that is a perfect practice and perfect way to think about the future and throw some wild ideas to the air, and you can get more discussion through that,"

informant #35 – regional official, Finland, pc, February 24, 2022 "We had an excellent scenario phase. We had a good consultant helping us with the scenario work, and also, I think scenario work opened a lot of eyes; we got a lot of information and new point of view to think about."

informant #36 – regional official, Finland, pc, February 28, 2022

<sup>&</sup>lt;sup>1,6</sup> McGowan et al., 2019; <sup>2,4</sup> UNESCO-IOC (Ehler and Douvere), 2009; <sup>3</sup> Zaucha and Gee, 2019; <sup>5</sup> UNESCO-IOC (Ehler and Douvere), 2009; McGowan et al., 2019.



BEST PRACTICE EXAMPLE. "We did the scenario phase of our planning with the stakeholders, which lasted for six months. It's not a typical scenario in many countries, but in our case, we collided with stakeholders and had blank maps. We pondered all the possible scenarios in the Baltic Sea and the Finnish marine areas. The stakeholders had to let go of all the perceptions and how they used to protect their industry and explain their views and what they needed. They had to let all these kinds of issues behind them and face the fact that there's a kind of future vision: what it means to your sector, and how do you find your place in this kind of future? We had three kinds of future narratives, and then we understood how the industries would use the sea area spatially. It set good bases for the next phase, the vision phase. They put the vision together for 2030 and 2060 for marine areas. Then they chose their future for themselves. So, it was an excellent exercise with the stakeholders. It lasted long, and a lot of new ideas and understanding came there,"

informant #34 – regional official, Finland, pc, February 24, 2022.



- UNESCO-IOC (Ehler, C., & Douvere, F.) (2009). Defining and analyzing future conditions. UNESCO-IOC (Ehler, C., & Douvere, F.), Marine Spatial Planning: a step-by-step approach toward ecosystem-based management. IOC Manual and Guides No. 53, ICAM Dossier No. 6. Paris: UNESCO, pp. 63–70. https://unesdoc.unesco.org/ark:/48223/pf0000186559
- McGowan L., Jay S. and Kidd S. 2019. Scenario-Building for Marine Spatial Planning. J. Zaucha and K. Gee (eds.), Maritime Spatial Planning: Past, Present and Future. Cham, Springer, pp. 327–351. <a href="https://doi.org/10.1007/978-3-319-98696-8">https://doi.org/10.1007/978-3-319-98696-8</a> 14
- For more information, views and reflection, see also <u>"6. XV. Challenge No. 15: Uncertainty."</u>

### 5. XVIII. EXAMPLE NO. 18: DIGITISATION

- Digitisation is essential in the contemporary understanding of MSP and its documentation accessibility.
- Digitisation is related to two other terms, marine Informational Governance<sup>1</sup> and Internet Governance.
- Informational Governance has arisen to address the new issues facing environmental and ocean governance (e.g., institutional change) in the information age<sup>2</sup>, using communicative tools to communicate knowledge to enlighten, persuade, convince, or seduce someone, frequently improving awareness, and fostering social support.<sup>3</sup>
- Therefore, Informational Governance refers to the methods and opportunities for using the information to represent, underline, clarify, convey, and coordinate the interests in and rationales for natural resources.<sup>4</sup>

"I think our digital plan is also nice and visual, and I think we succeeded in that point quite nicely as a digital plan itself. I think it's easily accessible and easily read,"

> informant #35 – regional official, Finland, pc, February 24, 2022

"One of the things raised in the workshops with stakeholders and organisations and also all the authorities was that there was an expectation that MSP outcome would be digital. So that's why we've made a plan into a digital map, so you can click on the zone, read about them, and zoom in and out. And that's actually because of those workshops and the discussions that happened there."

informant #43 – governmental official, Denmark, pc, March 14, 2022

<sup>&</sup>lt;sup>1</sup> Mol, 2006, 2008; Soma et al., 2016; <sup>2</sup> Soma et al., 2016; <sup>3</sup> Egmond et al., 2006; Hoefnagel et al., 2013; <sup>4</sup> Hoefnagel, 2013; Mol, 2006, 2008.

- "Internet Governance" is a significant concern for UNESCO, recognising the Internet's potential to promote inclusive knowledge societies and sustainable human development and to increase the free exchange of ideas and information around the globe.¹ More specifically, on 1 July 2016, the UN Human Rights Council adopted resolution 32/13, "The promotion, protection and enjoyment of human rights on the Internet", and recognised "the global and open nature of the Internet as a driving force in accelerating progress towards development in its various forms, including in achieving the Sustainable Development Goals."
- Internet is "enabling an increasing number of stakeholders to become better informed and more determined to participate in the management of marine environment"<sup>3</sup>.



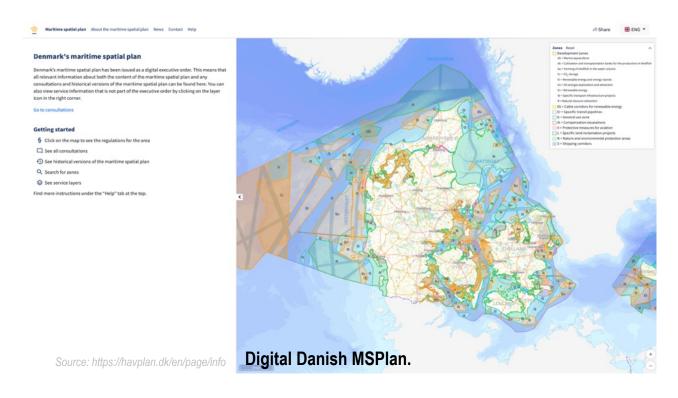
BEST PRACTICE EXAMPLE. The HELCOM-VASAB MSP Working Group created the BASEMAPS (Baltic Sea Map Service) (https://basemaps.helcom.fi) as a regional sea basin effort in 2018–2019, which provides details on MSP in the EU coastline Member States of the Baltic Sea Region.

Source: EC. 2021d.

Digital German MSPlan for the German EEZ in the North Sea and the Baltic Sea.

<sup>&</sup>lt;sup>1</sup> UNESCO, 2021; <sup>2</sup> UN General Assembly, Human Rights Council, 2016, para 2; <sup>3</sup> Hoefnagel et al., 2013, p. 154; see also Mol, 2006, 2008; Soma et al., 2016.

 The Covid-19 outbreak, which was present when the bulk of MSPlans were created, enhanced the need for digitisation in the MSP industry in recent years.<sup>1</sup>



"The planning process is going digital. The information is incorporated into a decision-making support tool, where you can integrate the various ecological values and economic interests and calculate the cumulative effects. Suppose all the information is properly assembled and the right algorithms are incorporated. In that case, it is possible to outline: if we were to build wind farms here, information immediately appears, impact calculation tables, from which it can be concluded whether it is possible. Such tools are necessary, involving the public and searching for the best solutions and arguments. Digitising the MSP process in such an open system, where the latest data can be continuously fed, will make the process, in a sense, more automatic and also simpler. Digital capabilities have evolved so far, and using them would be very important. That would be the most important thing,"

informant #13 – spatial planner, Latvia, pc, January 20, 2022

<sup>&</sup>lt;sup>1</sup> Neimane and Michalak, 2023, forthcoming.

- Some countries in the BSR have demonstrated special efforts in providing the digitisation of MSPlans.
- For example, MSPlans for Denmark, Finland and Germany are available in cartographic form on the national geoportal (also in English), BASEMAPS and the EMODnet Human Activities data site.<sup>1</sup>



 Danish Maritime Authority. Nd. Legally binding digital maps: Recommendations for establishing an infrastructure for digital publication of the geography of legal rules. Available at: <a href="https://maritime-spatial-planning.test.ec.europa.eu/sites/default/files/brochure-on-legally-binding-digital-maps.pdf">https://maritime-spatial-planning.test.ec.europa.eu/sites/default/files/brochure-on-legally-binding-digital-maps.pdf</a>

<sup>&</sup>lt;sup>1</sup> Neimane and Michalak, 2023, forthcoming.

# 5. XIX. EXAMPLE NO. 19: APROACHES TO CONFLICT MANAGEMENT

- One of the feature characteristics of MPS is its ability to ensure conflict management between different industries/uses.
- Sector conflict management addresses the issue of coordination and promotes growth by preventing advice from government agencies that conflict with one another.<sup>1</sup>
- Early resolution of any sectoral conflicts can avoid later complaints being lodged and, possibly, going to court, which might be time-consuming, expensive, or result in the project being cancelled.<sup>2</sup>

"I think what was good is that we first started our MSP by eliminating conflicts. So, we made a kind of a matrix, let's say, but potential conflict map or conflict potential map scheme, or kind of this to identify what are the main conflicts for different see users and trying to allocate new uses in those areas where those conflicts are minimum for different activities. So, this, I would say, is perfect practice and pays off if you eliminate it because, first of all, it identifies the areas. Secondly, it minimises the risks for the developers and makes your approval of the plan easier because you have very objective reasons or explanations of why this is there but not there, why this thing can coexist with another thing, and why not. And when you do this conflict matrix and go from this perspective, you are on a good road. But in general, this is, let's say, from the Lithuanian perspective, I would say: the conflicts management as a first trigger was a good solution,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022



**BEST PRACTICE EXAMPLE.** According to the approach used in the establishment of federal MSPlan in Germany, "the sustainable development of space also means that in the case of competing uses, spatial planning should work to ensure that the individual uses can develop as well as possible and that this happens within a framework that adversely affects the other uses as little as possible."

Source: EC, 2021d.

<sup>&</sup>lt;sup>1</sup> EWEA et al, 2012, Seanegy 2020 project.

#### 5. XIX. EX.19: APPROACHES TO CONFLICT MANAGEMENT

"I guess what we did very well. That was the beginning of this MSP, when we applied the method of less conflict, how to say when all the possible conflicts and marine areas were identified and tried to be avoided. I think it's a perfect approach for starting the MSP,"

> informant #46 – spatial planner, Lithuania, pc, March 10, 2022

### 5. XX. EXAMPLE NO. 20: DETAILED PLANNING

- Detailed planning practice is well-known in the land area.
- Detailed planning is valuable for depicting on a larger scale smaller objects or providing spatial zoning in a more complex way. However, detailed planning is less common in MSP.
- In this sense, the example of Poland is practical, where the detailed plans for lagoons, port waters and selected areas (their total number could exceed 20) are in the preparation stage (for more information, see <u>"3.VIII. Poland: The Polish MSP system"</u>).

"But there's a lot of small solutions, and, of course, this approach allows more accurate plans to be built into the bigger plan. Most countries have these big plans for their whole sea areas, and they stop at that. And then they might find themselves with a problem when they have these smaller, much more used areas needing to be sufficiently planned, and they become open to really haphazard decisions. So, some solution, a regular solution allowing planning within a plan for more accurate spatial solutions, which would then be lasting and organising space properly, that might be quite important,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022 6. CHALLENGES OF MSP

"Now, that you think that it was the first planning round, and it might be so that they [politicians] were not sure what they were deciding, and we had to inform them. And then it might be so that during the second planning round, they will find out – 'Oh, now I know what the MSP means and what the aims of MSP are. Now I have something to say, and I want more local conditions and regional development ambitions to show through the plan. I'm quite sure it will be much harder during the second planning round than it was during this first,"

informant #34 – regional official, Finland, pc, February 24, 2022



### 6. I. CHALLENGE NO. 1: IMPLEMENTATION

- In the BSR, the plans exist at the theoretical level at the moment. It remains to be seen how the implementation process will take place, and it is also one of the main challenges.
- The implementation also needs to be assessed and will affect the shape of the next planning cycle.

"As to the challenges, I think they will be in the next round with politicians when the wind energy development goes further, and these questions will come to the wider discussion. This round was – in a way – easy because, I think, this was a new thing, and the meaning of the MSP is unclear... so far... mostly. But when the second round comes, it might be more complicated,"

informant #27 – governmental official, Finland, pc, February 15, 2022

"[The plans] need to be implemented. I think there are good possibilities to implement the plans, but we haven't seen that yet. So, we will still see. The implementation puts a lot of pressure on a whole range of stakeholders and actors here. So, the plans are nothing as they are now. More knowledge base, common understanding or common goals for using the sea are needed. But the implementation is the key,"

informant #51 – governmental official, Sweden, pc, March 24, 2022 "You can prepare the plan as, let's say, a guiding document. But as we all know, these are only ideas. The second step is implementation. And implementation is something different,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

"It's a lot about implementation. A plan just for the sake of the plan isn't beneficial, and a plan based on the interest of strong investors and stakeholders is not useful either. For the planning tool to be useful, it needs to be comprehensive and include stakeholders from all sectors of society. It needs to take the consultation and also the implementation seriously. And also, it's interesting to see how much effect the plans will have concerning politics that it also always comes down to political interests in determining the sea use anyways,"

informant #6 – MSP researcher, Sweden, pc, December 14, 2021

### 6. II. CHALLENGE NO. 2: GENERAL AND ABSTRACT NATURE OF MSP

- Very often, especially in MSP practice, the general and abstract nature of both MSP as a process and MSPplans is emphasised.
- More and more discussions arise that the plan is "over-generalized"1.
- However, to some extent, MSP is at a crossroads. It is generalised and abstract and must be simple enough; for example, the cable layout must be flexible.<sup>1</sup> But at the same time, it can not be too detailed.

"MSP only regulates the whole zones anyway. For example, you must go through a much more detailed assessment process to locate a wind farm. But the thing is, even though that assessment process considers what other stakeholders would be affected by this, it doesn't do it more comparatively because it's only this area that is under evaluation in that case, right? It doesn't look at the planning needs or other available candidate areas. So, I mean, that's what we – researchers try to come up with the tools, right? The tools should somehow negotiate different interests, but also not only for one locality, but also see that locality in context to other candidate areas to know the whole picture, and that's an approach that right now does not have a home anywhere in this process because it's not part of the MSP since it contains too general zones. It's not part of these assessment processes since they only look at one locality. So, I think that's the challenge right now: how do you make this more cross-sectoral? Because if the zones are so general, then the plan does not make these regulations. And I think it's a general trend in many places to have more general plans. So, the process can be inclusive, but the plans are very general because they have these very general zone specifications, right?"

> informant #52 – MSP researcher, Denmark, pc, March 24, 2022

<sup>&</sup>lt;sup>1</sup> informant #15 – maritime researcher, Estonia, pc, January 21, 2022.

#### 6. II. CHALLENGE 2: GENERAL AND ABSTRACT NATURE OF MSP

"When it comes to technology, if you are very specific in the determinations and you can't change it on an easy basis, you might restrict and limit technological developments in your country, and that might even lead to the situation where a project is not of interest because it's too expensive,"

informant #10 – business representative, Germany, pc, January 13, 2022

"Now, at the given moment, I look: the industry is already developing, developing, let's say, these floating foundations here so that you don't need to go in there for 60 meters, make some towers, but simply take them, make a floating wind generator. This means that by looking at the already outdated marine planning measure, we have already missed something again. It's somewhat silly because technology is developing, and nature is also changing... it's not homogeneous anymore. The lichen is not there today; it will be there tomorrow. And therefore, when we decide that only here and nowhere else, it is to say nothing because, in the environmental impact assessment, something new can be discovered, some creatures can die, and so on. Maybe everything will return to life right where they died while building this tower. Well, you understand, that's why its planning is so abstract because the assessment of the impact on the environment must be done in the same way,"

informant #16 – business representative, Latvia, pc, January 24, 2022

## 6. III. CHALLENGE NO. 3: EFFICIENCY OF THE PROCESS

- Although generally rarely explicitly mentioned, procedural efficiency is a fundamental challenge of the MSP.
- Efficiency should not be confused with another term, "effectiveness", which is this manual's next chapter's topic (see <u>"7. Effectiveness of MSP"</u>).
- The difference between the two terms lies in the fact that efficiency describes how well something is done, but effectiveness explains how beneficial something is. In other words, effectiveness contrasts with efficiency in that it refers to the value of a task.

"I think that the main question is the efficiency of the process, efficiency of the planning and efficiency of the strategic environmental assessment. We can measure efficiency very differently. One of them is procedural efficiency. The main problem is that the process takes too much time. It's wrong. Because of this issue, the investors might run away. The process takes too long. And the other limitation of the efficiency is unpredictability. The investors have a minimal idea of how feasible the plans are concerning the potential approval of the plan. Investors spend much time and money on their applications and impact assessments. So, the time for the processes should be very much minimised. And the unpredictability should be improved. That's procedural efficiency. And the other thing, a more strategic question, is whether the analyses and conclusions of our studies change decisions if they have some impact on decisions. For instance, if we find out that the mussel farms have an environmentally and economically good, positive impact, then it should somehow change decisions... they should be boosted and promoted somehow. The link between research conclusions and decisions is a question. It's questionable,"

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022

#### 6. III. CHALLENGE 3: EFFICIENCY OF THE PROCESS

- Since MSP is a public process where particularly stakeholder involvement plays a central role, "stakeholder involvement efficiency" is a critical issue to consider and evaluate.
- This final observation introduces the following challenges <u>"6. IV. Challenge No. 4:</u>
   <u>Risk of proceedings"</u> and <u>"6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders."</u>

"Most challenging for me is MSP as a process. I see it as a process which needs very high flexibility and dynamics to reflect and to react on the continuous change in business,"

"A huge question is this involvement efficiency because this long public process has the main idea of involving the stakeholders. Maybe do them longer to involve the stakeholders properly. But now the question is whether stakeholders change anything. Did they improve the plan? Did they make a better plan and get their ideas into the plan? Or – do we change stakeholders somehow; are they now better people thanks to that process? I see the possibilities here to improve it,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

informant #25 – MSP researcher and practitioner/NGO representative, pc, Estonia, February 9, 2022

# 6. IV. CHALLENGE NO. 4: RISK OF PROCEEDINGS

- The risk of proceedings should be emphasised more often in the field of MSP. Most likely, this is mainly because this topic has been less relevant in MSP until now. Except for the case in Estonia, when the part of the Hiiu plan concerning offshore wind energy extraction areas was challenged, there are no other cases where legal proceedings have been initiated. Therefore, the risk of legal proceedings is considered high in Estonia.<sup>1</sup>
- The risk of litigation exists purely objectively in the field of MSP, and it is very precisely described in the opinion expressed by one respondent:



**EXPERIENCE GAINED – ESTONIA.** "If we are on land, usually in the planning process, the next level is a detailed plan, and then after this detailed plan is coming to this building project process. Then we have this general planning where we choose the area. And then coming next step, the next planning stage. But on the sea, the next stage is a building project, with no next planning level. For building projects, there is also environmental impact analysis. Still, the court says that in the planning process, we must be sure when we don't have the next level of planning. It is why they say that we can't say that it's safe and must cancel it [Hiuu plan wind energy areas],"

informant #14 - spatial planner, Estonia, pc, January 21, 2022.

"The main challenge is the implementation of specific objects and activities from the general level of MSP. In practice, it may turn out that the MSP is too general (highly open to interpretation), and specific projects (wind farms, cables, fish farms) get stuck in disputed details (for example, what type of wind turbine foundation must be, whether an electric cable may pass through a Natura 2000 area). The danger is the further (yearslong) proceedings of the MSP (and/or marine projects) in the court system, which creates a situation where very urgent decisions and actions are delayed,"

informant #12 – business representative, Estonia, pc, January 19, 2022

<sup>&</sup>lt;sup>1</sup> For example, informant #12 – business representative, Estonia, pc, January 19, 2022.

# 6. V. CHALLENGE NO. 5: GAPS IN THE INVOLVEMENT OF CERTAIN GROUPS OF STAKEHOLDERS

- During the development of MSP, nevertheless that overall stakeholder involvement
  was estimated positively almost in all countries of the region (see <u>"5. III. Example
  No. 3: Stakeholder involvement"</u>); it was observed that one of the biggest challenges is
  the involvement of certain groups of stakeholders in the process, such as the wider
  public and fishermen (see also <u>"4. II.A. Fisheries"</u>).
- The problem of broader public involvement is recognised by experts, planners, and responsible institutions. The lack of participation of the more general public is partly grounded in the fact that the legal frameworks do not require special attention to this aspect. This issue is simultaneously related to promoting public interest in the question.

"We had some lacks, for example, fishermen. Our planners didn't have established connections with them. It was a new stakeholder for them in this MSP planning process. And it was a challenge to find new ways to contact people you haven't met before and try to give an understanding of the conditions of that industry among the planners, and then understand how we can sustainably support the industry. It was a real challenge for us. And it showed how important it is to have these established connections beforehand and have this kind of social trust between planners and maritime sectors beforehand when you start the process,"

"The problem, if it happens itself, is that some groups will not be represented. Some groups always don't have the same opportunities to take part in the debate,"

informant #34 – regional official, Finland, pc, February 24, 2022 informant #51 – governmental official, Sweden, pc, March 24, 2022

<sup>&</sup>lt;sup>1</sup> informant #29 – spatial planner, Estonia, pc, February 17, 2022; informant #51 – governmental official, Sweden, pc, March 24, 2022.

#### 6. V. CHALLENGE 5: INVOLVEMENT OF STAKEHOLDERS



"There is a formal process that you advertise; there is a public meeting, and everybody interested can come. But, of course, if the plan is not saying anything about my backyard, why should I waste my time? Only if you plan maybe these wind turbines in my coastline, then I come and say that I object,"

informant #15 – maritime researcher, Estonia, pc, January 21, 2022 "The problem is that people are not more involved, and that's probably a problem for fishermen because they see that still there's a barrier between the administration and people,"

> informant #53 – spatial planner, Poland, pc, March 28, 2022

- The planning experience of the comprehensive plans where land and sea waters are planned together shows that people have more interest in the terrestrial planning perspectives than in any sea activity (shipping lanes, fishing, or sand or mineral extraction).<sup>1</sup>
- Wind farms are an exception because people always have opinions and mixed emotions about their development.<sup>2</sup>
- The general and abstract nature of the MSP of both MSP as a process and MSPlans (see <u>"6. II. Challenge No. 2: General and abstract nature of MSP"</u>) hinders the involvement of the general public.<sup>3</sup>
- "Ladders of participation", based on interpretations and development of the ladder by Arnstein<sup>4</sup>, are also applied in MSP.<sup>5</sup>

"It was a huge problem preparing a general plan to attract all the parties with something to say. For example, the fishing industry wasn't very interested in taking part in the making of the plan. The fishermen weren't interested in stating their requests because, in the beginning, they had a feeling that it would not matter at all if they appeared or if they did not appear,"

informant #50 – spatial planner, Poland, pc, March 23, 2022

"There is still a long way to go to gain the public's interest in how we should use our ocean. People have many things they need to have an opinion about daily. They are busy, so carrying about a 10-year plan might be outside the top of their To-Do List for them, and I understand if they only care about the sea when a plan for a local offshore wind farm is coming up. That's why we don't have more interest in the public. It is more ambiguous and not very easy to relate to,"

informant #43 – governmental official, Denmark, pc, March 14, 2022

<sup>&</sup>lt;sup>1, 2</sup> informant #8, Germany, pc, December 22, 2021; <sup>3</sup> informant #32 – regional official, Finland, pc, February 21, 2022; informant #36 – regional official, Finland, pc, February 28, 2022; <sup>4</sup> Arnstein, 1969; <sup>5</sup> Kidd and McGowan, 2013; Matczak et al., 2014; Morf et al., 2019; Twomey and O'Mahony, 2019.

- To conceptualise and assess various public participation levels in MSP, the lower levels of the ladder include information (passive participation) and consultation (active participation).<sup>1</sup>
- Passive participation alludes to the public's "right to be informed about issues and processes and decisions" and authorities' "obligation to inform," while active participation comprises the public right "to provide views and be listened to" and the authorities' "obligation to listen."<sup>2</sup>
- Information-sharing and consultation have become standard fundamental elements in national and international MSP processes.<sup>3</sup>

"I don't even think there's been a discussion on MSP. I never heard about MSP. Of course, I can conceptually understand that someone is doing this... But I don't think there's ever been a discussion about it in public, and I keep very well updated on the news. I don't remember anything about this in the news or any discussions about this at all. I've never heard about it; certainly not a public debate related to this. Just because you put it up on some obscure website without any reference to it... it is publicly available, but if no one ever sees it, it has the same effect. I prefer to call a spade a spade,"

development, and I even heard last year a couple of people saying that I'm not going there anymore because it makes no sense because this is not a consultation, it's a presentation of the project. So, this is the way I wouldn't expect that MSP is discussed between different stakeholders. Sometimes it's just: yes, we have an expert who says it is suitable. But it's not a real consultation,"

"When we have public consultations."

very often it's just the presentation of the

informant #54 – business representative, Denmark, pc, April 5, 2022

informant #44 – MSP researcher, Poland, pc, March 15, 2022

<sup>&</sup>lt;sup>1</sup> Morf et al., 2019; Twomey and O'Mahony, 2019; <sup>2, 3</sup> Morf et al., 2019.

"During the planning process of the big plan, we were trying to involve as many people as possible and many organisations. It was also done like that in Latvia – great effort on this public participation thing. But then, public participation is always limited by the understanding of participants of the topic. The information passed to the people from the street was and still is unsatisfactory. I'm afraid that this is the same all over Europe,"

Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

"We also allowed coming to this process to the general public. But there weren't a lot of people actually that came through that. I think planning the sea may be a bit far away from the general public, and maybe they will come more to this process in the next cycles or MSP processes. But right now, I saw that we had a lot of media coverage and a lot of different articles, and we also had posters in the fishing villages or different villages on the shore. But still, a lot of people didn't come,"

informant #20 – governmental official, Estonia, pc, February 1, 2022

"I would have liked to have the more public. We have associations of mussel growth, associations of aguaculture, and associations of fishing and shipping. And they were asked. And also, universities were asked. However, the great public wasn't asked. Yes, of course, you can always send your opinion, but there wasn't something like a big public campaign saying that we are planning on this and this. Yes, we have public involvement, but you could do it on a much higher level. Because I think it's quite important to take the normal person into it. If we don't ask the normal person on the street, they might never think about it because it's so far away. You have to make it quite interesting for them because you have to put some thought in, which is so important. I would love to have a bigger budget for actually good campaigns, to have the public interested in what is going on just next to them,"

informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022

"The government has a hard time doing actual or real stakeholder involvement because it's a whole country. You do not reach out to the citizens. Maybe you reach out to the organisations, but it's mainly the municipalities which have a tradition of speaking with citizens and making extensive stakeholder involvement. So, it can also be because of the very centralised responsibility that the stakeholder involvement was lacking. The stakeholder involvement should be much more localised if you divide the stakeholder involvement into meaningful local areas. It should be down to local people. Then it would make sense for people to contribute. For example, we have a lot of fjords in inland waters in Denmark. Our tiny country has a long coastline, so people are very close to the ocean or the sea. They live very close to the sea. Most people can take a bicycle and bike to the beach. So, I think there would be a lot of engagement from citizens if the stakeholder involvement were local about how we will use this fjord in the future. What do we want to have in this fjord? Do we want marine protection? Do we want windmills? Do we want aguaculture? Do we want recreational areas for kayaking?"

"I would say nobody from our respondents - we're talking about teenagers - basically, nobody realises that the Baltic is the source of their goods. They do not realise that two major ports on the Baltic – Gdynia and Gdansk – provide them with goods they buy at the shops. So, like shipping, transportation is not the case for them. They do not think in terms of rising sea levels. So, the need for adaptation to the change is not part of their thinking about the Baltic. Everybody shows disgust if you have this narrative that the Baltic is dead. So, we have this big problem with different media when we have to go to media, or they want comments about something. They often start this: 'Why is it so bad with the Baltic? The Baltic is dead.' And they use this expression about the dying Baltic. It's over and over again. And that's why the people, you know... if you hear it from here, from there... over there, then you believe in it, and I think that this also may be the problem with marine spatial planning because if you think that it's not worth it, then let's do whatever."

informant #64 – MSP researcher, Denmark, pc, May 12, 2022 informant #44 – MSP researcher, Poland, pc, March 15, 2022

- There might be several approaches to improve and encourage the involvement of the broader public in the MSP processes.
- One solution to enhance grated participation from the public would be to turn MSP in a more localised way so that people feel that it is something of their interest and worthwhile to participate in and influence.
- Another option is providing sufficient public information and educating the public at large and the younger generation.<sup>1</sup>



**IDEA.** "The main challenge is always the unknown, that is that we still know very little about the sea and that there are very few people who understand what's going on in the sea and the interactions in the sea and the interactions between the sea and humans. And therefore, excellent information which comes to the whole public is important because, finally, in the end, at least 1/4 of the population of Poland will be somehow influenced by what's been decided for the sea and the coastal zone. In many countries, it's just the same or more. The important thing is the public pressure. The public pressure comes from public media, which should produce and show in a very understandable way - how they are trained to present things to the public so that the public will gain an understanding of the very many problems. Of course, this task is complicated because it's difficult to do it constantly. So, the huge challenge is passing true information, making it very public and understandable, and getting it to schools. At least in Poland, I find that the children know about the sea only that it's there and that you have a beach and, well, it's nice and sometimes sunny and sometimes stormy and that's all. So, the whole maritime knowledge remains unknown. This is a big challenge. I think one thing should be started at school with a program of teaching about the sea and the coast, physics, biology, and economics. There are a lot of myths, e.g., about coastal erosion and the importance of cliffs. In fact, the cliffs are not as important for the coast as people tend to think. A large thing is education, both primary and secondary, and, of course, the public media,"

> Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

<sup>&</sup>lt;sup>1</sup> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022.



**IDEA.** "I think that the more interactive tools and, let's say, maybe including some educational projects before we start the plan or after we complete some plans would be handy because the problem is already not only on the platform of preparing the plan, but it is also on the pre-planning level. After all, society does not know much about the planning of the maritime areas. They do not know how to take part in the process. They do not believe that their words matter at all. So, I would add some interactive tools and educational projects to boost the general knowledge of MSP because we lacked that. Sometimes we had to like almost knock on somebody's door to ask them what they think about the plan that is like happening just in front of their window,"

informant #50 - spatial planner, Poland, pc, March 23, 2022

<sup>&</sup>lt;sup>1</sup> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022.

### 6. VI. CHALLENGE NO. 6: CONSIDERATION OF SOCIAL ASPECTS

- Challenge 6, "Consideration of social aspects", relates to the best practice "5. IX.
   Example No. 9: Social impact assessment", "5. X. Example No. 10: Assessment of visual impacts" and correlates with "6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders" and "6. VII. Challenge No. 7: Power relationships and dynamics."
- Nevertheless, few positive experiences in this domain in the BSR; this is matter that still requires further elaboration and integration into MSP.
- The questions relate to the role of the local communities and identification of the beneficiaries of the blue economy, as well as local knowledge.

"There's an overfocus on economy and ecology, environment, and the social aspects, justice and distribution are not well represented. So, that's something that is a challenge to cope with. Also — what is the role of the local communities, and who benefits or disbenefits of the Blue Growth in our countries? There needs to be more consideration of that in the planning stage, but also during the evaluation,"

"We are now missing the local knowledge, so to say. We have this network that anyone can join as local or national-level actors. They will get any information or invitation to meeting events we organise so that they can participate in our planning. However, still, we are missing kind of, you know, the local knowledge of values and emotions attached to coastal areas. sea areas. We had a case study in one of our regions. We mapped the most valuable areas for them, recreational or nature values, cultural values they see, and emotionally meaningful places for them. But our case study showed that this is something that we have to do along the whole coastline. This takes a lot of resources, but I think it's very essential for us."

informant #18 – MSP researcher, Sweden, pc, January 25, 2022 informant #34 – regional official, Finland, pc, February 24, 2022

"I think MSP has more responsibility to connect what is permitted or what's being promoted to how that benefits communities or people in terms of jobs, income, and development. All these things happen in the sea, but the benefits return to the shore. But where do they go? Do they go to coastal communities? Do they go to municipalities? Do they go to big international corporations? Do they leave the country? I think that it should be a much bigger thing for MSP to include this thinking in giving priorities,"

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

"One of the aspects is the socioeconomic aspect which mainly has come down to some local benefits, so to speak – what do the local communities benefit from this offshore energy production? Do they get work or other income opportunities? Or do they have to accept the terrible visual impact that it will impose? From the socio-economic part, this is one of the main things,"

> informant #22 – spatial planner, Estonia, pc, February 3, 2022

"What we have done to accommodate for any cultural aspects is just leaving the space for it. But we have not done anything to facilitate the development or to support it further than that, and it's something that we would like to evolve upon and to look more into in the future planning process: to see if we can do more. Hopefully, in the future, we will also get the means to look more into how the plan can support cultural activities and tourism and recreation and more of these social aspects. And then it's something that we would like to incorporate more in future relations. There is an issue with information and data regarding incorporating these more social aspects. We do have some data, but there's not a lot, and it's costly to generate this kind of data."

> informant #43 – governmental official, Denmark, pc, March 14, 2022

### 6. VII. CHALLENGE NO. 7: POWER RELATIONSHIPS AND DYNAMICS

"For me, the most challenging thing is to understand really who and how can influence processes in the sea,"

informant #61 – spatial planner, Lithuania, pc, April 5, 2022

- Challenge 7, "Power relationships and dynamics", correlates with <u>"6. V. Challenge No. 5: Gaps in the involvement of certain groups of stakeholders"</u> and <u>"6. VI. Challenge No. 6: Consideration of social aspects."</u>
- However, its remit is broader than just including social aspects in the MSP. It also covers inter-agency collaboration and dimensions of property rights in the sea. Nevertheless, one of the most important aspects is the eventual and frequent negligence of specific stakeholder groups who do not feel "heard" (for example, fishermen) (see also <u>"4. II.A. Fisheries"</u>).
- This means the public and relevant holders must be informed and listened to. An inclusive approach comprehends the meaningful integrations of views and opinions, even if they are subjective and divergent from the mainstream system.

"MSP is not a good process because you have certain sectors that are selected the first: you, know, oil and gas, that's very important, and that's a lot of money... In these times, electricity is quite important, so they had to select areas for wind farms as the second sector, so they take off maybe also 1/3 of Danish waters. And then the rest of the activities, like nature protection and fishery, are left with the leftovers. And that's not the way to do the best maritime spatial planning,"

informant #60 – fisherman, Denmark, pc, April 4, 2022 "This is more like a personal reflection on stakeholder interaction – how do we secure real integration of all the relevant interests? Because that's also one of the issues that all of the MSP processes, at least in Europe, have. We need to evaluate what's efficient and decide on how we secure all relevant interests; who has the power to decide which interest to include or not, and how do we ensure that the process is inclusive,"

informant #26 – governmental official, Sweden, pc February 10, 2022

#### 6. VII. CHALLENGE 7: POWER RELATIONSHIPS AND DYNAMICS

"I think, with stakeholder involvement, of course, there is always the risk, the clear risk that those who participate in the processes and who give their view of the future will be the interests that are strong today, the established interests that want to secure their share of the sea space in future and want to sort of ensure that agencies have their perspective whereas emerging, more innovative approaches, new technologies, new uses may not be that strong and vocal and may not be captured that easily in these processes. There is the risk that you sort of plan for more of what is already here. So, anyone in charge of the planning process needs to be very sort of attentive and receptive to new ideas, of course."

"As the opposition for the words of infrastructural companies, we would also need some environmentalists, and we would also need tourists, we would also need inhabitants of port cities to balance all the interests properly, because the voice of infrastructural companies is very, very loud at the moment. The fishing industry is in the middle, and there is low interest from the locals, tourists and environmentalists. So, I missed this voice. Because, you know, we, as the planners, want to, let's say, have it balanced, but sometimes the balance depends on our knowledge and our point of view, and not always sure if there is a need for extended tourism if there is need for protection of some particular areas. Of course, we have these environmental documents, but sometimes it is hard to put some regulations in the plan and explain them to industrial companies. So, we need either a document which is legally binding, or we at least need a voice on public discussion from the other side."

informant #23 – MSP researcher, Sweden, pc, February 7, 2022 informant #50 – spatial planner, Poland, pc, March 23, 2022

#### 6. VII. CHALLENGE 7: POWER RELATIONSHIPS AND DYNAMICS

 In the BSR, MSPlan is prepared by the hired planners in some countries and then approved by the competent authority. However, the final approval is done by the politicians. This system can cause the situation when MSPlan is changed substantially, even changing its initial intentions.

"I think the governmental agencies listen more to who they are normally working with, and we are working normally more closely with the Ministry of the Environment, and not so much with the Ministry of Business and other interest organisations have it in the other way around, and because of that they are maybe not so focused on the environmental protection. And you can also say that another argument is that a lot of the proposals from our side, the Green Chamber or the Green organisation, is proportionally depending on finance and money. And the business proposals are something which maybe could earn money. Or you could extract resources from the sea and earn money, which could be an input to the business. So, it's not so costly as our proposal, so that's another reason for why they may be listening more to other arguments,"

"We prepared everything, and after all the procedures, we gave all the documents to the Maritime Offices. Maritime Offices, the ministry supervises their authorities, so they gave out the MSPlan to the minister. After that, there's a new parliamentary procedure in which the minister asks other ministers about their perspectives. After that, it was voted in the Polish parliament. We noticed that we were making the public process in which we asked the municipalities, the representatives of administrations, decision-makers, and people. And after that, when it was brought to the Polish parliament, it was like inner circles; it was like a process that wasn't as public as the process before that was. Our project of MSP we prepared wasn't the same as the real regulation,"

informant #65 – NGO representative, Denmark, pc, June 16, 2022 informant #53 – spatial planner, Poland, pc, March 28, 2022

"The planning process ends with the project of the regulation. Unfortunately for us, when we try to adopt this regulation, according to our legislation, we're opening a new process: adopting legislation. To sign such regulation at the end, we need to have the confirmation of the ministers. For them, that confirmation is not the same as the confirmation of the MSP process during the MSP elaboration. And this is the problem. And despite that, they agreed on the plan which was submitted initially; at the approval stage, they said it was like they got new ideas, and they won't accept our regulation. Ultimately, it was all a political decision, so we had to make some compromises and minor changes. We didn't expect them on that level. So, this is the hard way. And this is one of the lessons for the next generation of the plan that we need to involve those ministers and this political level much more during the whole process. I think such an approach is needed when those people are involved and not only invited into one or two meetings, and it could also help us to avoid such a situation that we had."

"Analyzing all these planning documents, both about the sea and the land-adjacent territories, the coastal situation in the Baltic Sea is very complicated because MSPlan has marked five territories where it is potentially possible to create these offshore wind farm territories, but practically a large part of they are very difficult or almost unusable due to the overlap of various sectoral interests: military, shipping, biodiversity, landscapes. Historical pollution, military, and shipwrecks are also significant. If you put it all on the map... about what remains... then the situation is quite motley, and finding a free spot where to place a [wind energy] station, and for it to be economically justified, is very difficult and challenging. It's the biggest challenge, how to put it all together and how to make all that colourful overlay usable for everyone,"

informant #57 – governmental official, Poland, pc, March 30, 2022 informant #48 – business representative, Latvia, pc, March 22, 2022

#### 6. VII. CHALLENGE 7: POWER RELATIONSHIPS AND DYNAMICS



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### 6. VIII. CHALLENGE NO. 8: MANAGEMENT OF CONFLICTS

- Challenge 8, "Management of conflicts", relates to the best practice <u>\*5. XIX. Example No. 19: Approaches to conflict management</u> and correlates with <u>\*6. VII. Challenge No. 7: Power relationships and dynamics.</u>
- The whole MSP process deals with conflict management. Nevertheless, in the prepared MSPlans of the BSR, it still remains one of the main challenges of the domain.

"There is a challenge on how to set up our plan to share the area. There's still a lot of conflict between the areas for the fishery, energy production and transportation and military activities,"

> informant #65 – NGO representative, Denmark, pc, June 16, 2022

"Planning holds some promise, I think, but it needs, in my opinion, to be a bit more radical, maybe identify and work more constructively with conflicts. I think now it's more papering over conflict. But some of these things are very political, to begin with. Now it's more like we're pushing the problems in the future. We're doing a plan, and the problems come when licencing and siting of activities, etc. That's where the whole politics come up again, I think,"

informant #18 – MSP researcher, Sweden, pc, January 25, 2022

"If you look at the sea, at sea, coastlines, these are, of course, always... at least in highly densely populated states like in Germany it is, you will always have significant conflicts in these areas because, you know, I mean, coastlines are beautiful, everybody wants to have the house at the coastline, everybody wants to do holidays there... also like traditional economic uses like fisheries and stuff like that, so, many, many interests in the very like small area and dense room, so, it's, I think, a perfect thing to do: to try to get these interests in line and for this you need plans. It would be best if you thought in the long term. And if this is done correctly, it's a perfect thing. I mean, in the end, in many political areas, it's like the most potent idea wins,"

> informant #58 – project manager, Germany, pc, March 31, 2022

"There are strong sectoral policies, and then there is a conservation of the seal population that is the highest on the Finnish coast compared to other countries in the Baltic Sea. And then there are great cormorants. And our national legislation is so that it doesn't allow, for example, the culling of the great cormorants' population, although it is sustainable. So, there is a lot of, you know, external influences that influence this sector that we are just powerless, so to say. This is always the seed of conflict in this kind of situation when you don't have power. You can't negotiate about things that you can't affect. So, we were kind of powerless and handless in a way when we met the fishermen and when the fishermen met other stakeholders. And of course, there's a lot of conflict between aquaculture... with aquaculture. I mean the fish farming, and other specifics affecting the good status of the marine environment. It was something that was considered during the whole planning process. It was a tough time in the industry and for the planners. I'd say because we have this long-lasting established way of thinking that you can't add any actions to the sea area that affect the good status of the marine environment. Kind of – how to solve that in a plan that shows the future situation? For example, in Finland, we tried to show what the maritime future looks like in 2030 and rely on technological developments, also in aquaculture and fish farming. So, a lot of conflicts... And we built table, so to say, and anyone can see that in our digital plan, these synergies, and conflicts,"

informant #34 – regional official, Finland, pc, February 24, 2022

"Another challenge is to make this sort of trade-off assessment. I mean, to what extent are different uses in practice compatible in different areas – that's hard to assess – and also to determine which interest should take precedence? I mean, which interest should you grant a licence, for example, in the case of conflict, on what basis do you make that assessment? Is this their relative contribution to overall societal welfare? Is it something else? So, these are essentially rather hard political decisions, I would say. But politics tend not to be that present because you delegate this mostly to an administrative level. And in the Swedish system, you have the final decision made by courts or governmental agencies. So, it's complex because many values and ideas about the future exist. What future do we want actually as a society?"

informant #23 – MSP researcher, Sweden, pc, February 7, 2022

### 6. IX. CHALLENGE NO. 9: CUMULATIVE IMPACT AT SEA LEVEL

- Challenge No. 9 "Cumulative impact at sea level" relates to the best practice example –
   <u>\*5. XI. Example No. 11: Cumulative impacts at the national level."</u>
- However, while some approaches and methodologies exist for dealing with cumulative impacts at the national level, cumulative impacts at sea level represent another level of thinking and pose a significant challenge. More knowledge and methodology regarding this aspect still need to be discovered and integrated into the regional MSP practice.

"We are struggling with cumulative effects, just in our maritime zone. And Denmark has not yet found a good solution for assessing cumulative impacts, which means that only one is assessed every time you permit a project. So, regarding cumulative impacts between countries is even more difficult. I think HELCOM and other regional fora could help come up with different approaches how to assess that,"

informant #64 – MSP researcher, Denmark, pc, May 12, 2022

"This is – from the legal point of view, I think – an interesting question because each company applies only for its project. The companies do not take into account the projects of other companies. We are missing the tool to estimate the total impact of those wind farms within Sweden and also in the Baltic as a whole,"

informant #1 – regional official, Sweden, pc November 30, 2021

"And I have also thought: it is quite a big dilemma, perhaps, or such philosophical questions... it will be tough for us now and in the future to find a balance between economic activity, growth and nature. If it was one wind farm in the Baltic Sea, I think that neither the migration of birds, nor maybe fish or maybe seals, nor maybe some other living organisms, wouldn't do any harm at all... well, maybe there would be a bit more curve, but it's absolutely nothing. But since every country wants to build this piece of the wind farm, then together – one piece, another piece, the third, the fourth, the fifth... and then together it forms such a mosaic structure, and so we fragment both that underwater bed and maybe those bird corridors. And then it starts to become a problem. But, of course, I don't see at the moment how at all to avoid it,"

informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022

#### 6. IX. CHALLENGE 9: CUMULATIVE IMPACT AT SEA LEVEL

"One of the types of cumulative impact is the impact of the same activities in different geographical areas. If, for example, one park in Lithuania or one park in the Baltic won't have any bad consequences, so, if we have ten parks, it might be a huge impact. In my mind, it would be perfect for trying to evaluate the general impact of all plants in the Baltic Sea; all the offshore wind parks, and how they will affect the birds of the Baltic region,"

informant #46 – spatial planner, Lithuania, pc, March 10, 2022 "If you take the idea of MSP seriously, you can't do that without considering cumulative impacts because it doesn't make sense. How do you distribute ocean space if you don't know the effects of the different activities? So, I don't think you can. Even if the Directive doesn't say so explicitly, if you look at how the concept of MSP has grown since the 80s and 90s onwards, I don't think that MSP without sort of impact assessments that tried to capture cumulative approaches... isn't serious MSP to my mind,"

informant #23 – MSP researcher, Sweden, pc February 7, 2022

"The thing is that we don't yet have the methodologies to assess cross-border cumulative impacts. And in principle, we have HELCOM, which is very much engaged. And then, of course, we have collaboration between HELCOM and VASAB, and MSP Group and all that has been done and is done there. The ESPOO convention requires you to share information about environmental impacts. But if you talk to the Swedish planners, you will also realise that it is tough to establish how the impacts are and how they go across the border,"

informant #31 – MSP researcher, Sweden, pc, February 18, 2022 "I think the cumulative impacts at the regional level are not handled almost at all. We do assessments and Espoo consultations, and there is OSPAR and HELCOM work. A lot is going on, but there is much more to do. And it will be challenging because at the end, I mean, we are planning, or we are managing our areas, and we are exploiting our areas in the first place,"

informant #51 – governmental official, Sweden, pc, March 24, 2022 "When we see many wind parks, it will also change and impact the wind strength and how it moves. Another thing is that will then all countries take into account, for example, bird migration routes, the way how sea mammals migrate, but especially the bird migration routes? Because like, for example, when some birds are migrating from Northern Finland to Germany, then along the way, they have like many wind parks, and they need to readjust their routes, and it might be that they wouldn't have the strength to get further from Lithuania, for example. So, this is another thing that is a bit unknown. And I'm afraid that most Estonian scientists haven't really sort of like focused... Not only in Estonia but, I believe, everywhere also... Most scientists haven't previously taken into account this cumulative effect because it's tough to understand, and then also, in many countries, the process has been going on at the same time, so I don't think that there is anyone who can say something certain,"

informant #28 – NGO representative, pc, Estonia, February 16, 2022



**IDEA.** "There might be a need for a more international regional sea basin-based assessment of the maritime status, the collective pressure and the cumulative impacts of all activities in general, not only offshore wind but also other activities. Even though we all have new plans in place, there are still a lot of activities you could see that are happening as they used to and where the cumulative impacts are not assessed. No one knows what the cumulative impact is on the sea basin level, so I think I would agree that in the future, we need some framework to assess the collective pressure on the sea basin level."

informant #43 – governmental official, Denmark, pc, March 14, 2022

# 6. X. CHALLENGE NO. 10: SPACE AND MULTI-USE (MU)

- The space and multi-use (MU) challenge relates to the best practice <u>"5. VIII. Example No. 8: Approaches to multi-use (MU)"</u> where innovative approaches to MU can be looked at.
- The challenge stems from the fact that every stakeholder still strives to obtain exclusive rights in the sea area, and the space is limited.<sup>1</sup> Everybody yearns to own a specific sea area for his use. It's necessary to adjust their behaviour in light of this MU concept.<sup>2</sup>
- Especially this matter might become topical considering the established MSPlans in the BSR and combining all of them in implementation.<sup>3</sup>
- The MU is an excellent concept in theory. Nonetheless, it raises several issues in dayto-day life. Then there are the questions of whether spatial planning is the appropriate framework to govern these matters or whether it is also a step in the licensing process that other agencies need to take.<sup>4</sup>
- MU certainly can not be insured by the MSP alone. Other mechanisms, such as research, linkage with permitting (licencing) system and its legal status, are needed.

"10 years ago, the space was not that big a problem. We could fish more or less everywhere. But today it started to be a big problem. Currently, you don't designate the areas scientifically – you don't do that; you place them randomly and try to optimise economic output. And that's in the short term, not in the long term. You need to work on the long term and secure as much as possible co-existence because we will run out of water in the future, areas of water because these wind farms will take up so much space we can't even imagine. So, we need to have all the other activities at sea also. We need to do it intelligently,"

informant #60 – fisherman, Denmark, pc, April 4, 2022

<sup>&</sup>lt;sup>1</sup> informant #14 – spatial planner, Estonia, pc, January 21, 2022; informant #24 – MSP researcher, Germany, pc, February 8, 2022; informant #43 – governmental official, Denmark, pc, March 14, 2022; informant #51 – governmental official, Sweden, pc, March 24, 2022; informant #52 – MSP researcher, Denmark, pc, March 24, 2022; <sup>2</sup> Informant #3, Germany, pc, December 3, 2021; <sup>3</sup> informant #44 – business representative, Lithuania, pc, March 16, 2022; <sup>1,4</sup> informant #8, Germany, pc, December 22, 2021.

"The main challenges would be implementing the combined use, I think. Because this is very new to people and in the MSP process, all the time, we had to explain the meaning behind that and how we could do it. The sea space is not going to expand; we have only one sea space, and then we have to see how we can give more synergies because it's straightforward to bring out conflicts and take them into account or even exclude different uses. But we have to think more about how we could give synergies and how co-existing together can be done because this is key, I think,"

informant #20 – governmental official, Estonia, pc, February 1, 2022 "The coexistence you can hardly determine on the MSP level. You can say multi-use is maybe possible, but it has to be further assessed in the permitting regime. But, if you exclude multiple uses on the MSP level already, then you will have potentially tough fights. If you say, you take all the area, and you exclude multiple uses from the very beginning, then you will potentially have a tough fight because then they, for example, the fishery can go to the court,"

informant #10 – business representative, Germany, pc, January 13, 2022

"But how should multi-use be implemented? What should it look like? There are a lot of open questions. We try to find and develop new ideas and concepts for it and demonstrate, show, and test how it could work, but reassuring it will take place is still challenging. But at least it opened many doors that have been closed before, so that's very positive. And we can also take our finger and point at the new plans and say, well, it's mentioned there: you have to think about it, consider it."

informant #39 – MSP researcher and practitioner, Germany, pc, March 10, 2022

"Multi-use hasn't found its way into the administration at the moment. They want to do it, but just a simple thing, administrative forms are still missing. They have to develop that. So, as far as the administration goes, they have to get the green light first for commercial use. Science is fine but real multi-use —the administration must follow there. So, that will take a bit to get all the people in line also to have them to get the permissions ready so that people can do multi-use on a commercial scale in offshore regions,"

informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022

- Implementing the MU approach is challenging because it is a new concept, and its implications still need to be explored.
- The solutions to resolve the conflicts of OFW with other sectors, especially allegedly incompatible sectors such as defence, fisheries (e.g., fishermen, ports, boats and ports, can support both maintenance of the OFW and multi-use between OFW and aquaculture, OFW and tourism) and nature need to be elaborated.

In Germany, "there is multi-use in the sense of different activities overlaying one another. So, they're happening in the same place. But they're not multiuse in the sense of really working together. So, they're just not in each other's way. But they're not actively actually contributing to each other. They are not adding value to each other. Maybe that's a better way of saying it. I think people are waking up to the fact that there must be multi-use because there isn't enough sea space. So, the question is, how do we make this practical? How can we persuade wind farm operators to allow aquaculture installation on their turbines? So far, I think the problem has been insurance or liability, and in case of damage, who then pays? All these practical questions have very much been stumbling blocks. but there need to be solutions to these very practical things,"

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

"For example, with multi-use... that's another thing... for example, even though they that you can say this zone could have multi-use, it does not mean that it will have multi-use because, of course. it's not a requirement, but it could be a nice way to think about in the future. Could we somehow urge the planning to say if you locate a wind farm here, you should consider, for example, whether you can include this, this, this and this to have more multi-use options, right? So it's not only up to the companies to say: oh, we want to do something with multi-use, but it should also be politically urged, right? And it's not. That's interesting, I think,"

> informant #52 – MSP researcher, Denmark, pc, March 24, 2022

### 6. XI. CHALLENGE NO. 11: CO-EXISTENCE WITH NATURE AREAS

• The EU Biodiversity Strategy aims to stop biodiversity loss and reverse the downward trend in biodiversity by 2030. The Member States have committed to 17 critical goals to accomplish this goal.<sup>1</sup>

"I think the main challenge is how do we balance, in fact, energy generation and biodiversity protection. So, the most difficult conflict is going to come between those things. So, climate change will put pressure on ecosystems and biodiversity. And there are calls for protection. So, you have the biodiversity 30% and 10% targets for protection, but, on the other hand, you have this enormous pressure to generate renewable energy. So, how do we bring that together? That's going to be the biggest challenge for MSP, I believe, by far,"

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

"The main challenge is actually to reach environmental and climate ambitions. Some of these challenges are trade-offs, I guess,"

> informant #18 – MSP researcher, Sweden, pc, January 25, 2022



"There seem to be good ways of combining wind energy production with nature protection. But, of course, I guess it depends both on the kind of wind energy facilities that you use, how much they sort of intrude, for example, on the bottom sediments, etc., and what kind of species or ecosystems it is that you're trying to protect, because they will be sensitive to different degrees to different kinds of impacts, of course, but overall, I think that the trend is that there is a fair chance or a fair ability to combine these. This fundamental idea that there is a hard conflict, always between energy production and biodiversity conservation, I don't think that that idea holds anymore,"

> informant #23 – MSP researcher, Sweden, pc, February 7, 2022

"For the time being, it's tough to see that the huge windmills farms could be placed in the important sea birds' areas because many sea birds are susceptible to disturbance. And as long as they are sensitive, they will disappear from these areas. Research has shown that the same species are leaving up to 10 kilometres from these windmills. The biggest threat is not that the windmills kill the sea birds. The biggest threat is that the sea birds keep far from the windmills. So, they are scared away from significant resting areas,"

informant #65 – NGO representative, Denmark, pc, June 16, 2022

"I think the most important thing is to consider the biodiversity, right, because it's different sustainability dimensions actually, right? If we destroy the ecosystems somehow and have too much only short-term economic considerations, we will destroy the ecosystems, and then it's all just bad, right? No activities will benefit from destroyed and contaminated water, right? If we don't consider biodiversity as well, it will be a huge challenge at a high economic price, right? So, there's a need for more thinking about the economy on a wider scale, not just within the various sectors, but also from an ecosystem level, right, where you also consider the price if we destroy these ecosystems. How do we protect the environment? And I think that's where we see many conflicts arrive in the near future: the conflicts between the climate and nature goals. We must find out how to consider both because we depend on both, right?"

> informant #52 – MSP researcher, Denmark, pc, March 24, 2022



#### The new EU-wide Biodiversity Strategy will:

Establish protected areas for at least:



**30%** of land in Europe



**30%** of sea in Europe

With stricter protection of remaining EU primary and old-growth forests legally binding nature restoration targets in 2021

 The Strategy sets the goal of creating a cohesive Trans-European Nature Network to legally protect at least 30% of the land, including inland waters, and 30% of the sea in the EU, with at least one-third (10% of land and 10% of sea) being under stringent protection.<sup>2</sup>

"Wind farms are also interested in shoals because they are put on the seabed. Of course, they affect the habitats, and the costs are cheaper if it is not so deep; therefore, they are interested in shoals, while in shoals, again, potentially more likely to have ecological values. Its interests are already in conflict by themselves. Of course, there can also be solutions that not only do not degrade the construction of the wind farm but maybe even create some positive effect on their ecosystem, like some artificial reef. Because it's not all that straightforward. But, well, such a conflict exists there,"

> informant #13 – spatial planner, Latvia, pc, January 20, 2022

"What is a wind turbine? They come, they throw a concrete block, you have a pole, and there's this turbine outside... all that pole is potential for creating a new place of biodiversity. If I'm not mistaken, there were also projects where tires were thrown into the sea to find where the algae grew and where to hook the eggs to those herrings. Therefore, it has already been viewed as such. We should only ban it. but look at it in the context – if there is diversity there, then we would put the turbine in such a way as not to destroy it but to promote it. Maybe plant directly in a circle so that the biological diversity here expands,"

> informant #16 – business representative, Latvia, pc, January 24, 2022

#### 6. XI. CHALLENGE 11: CO-EXISTENCE WITH NATURE AREAS

"I would like to say that with today's knowledge, which we have already developed more, and we have obtained much more information, how the construction of these wind farms is going, and the research data has also arrived... I remember that also in the same year, so in 2009/2010, we also participated in workshops on building wind farms and their impact on biodiversity. Many different options were looked at. Does it disturb the birds and the fish, and how maybe plants or clams can grow there or not nearby? And now, with the current knowledge more and more, there is an understanding that, in general, the wind farm and the marine protected area could even be connected. But only, of course, it would be essential in this context to take into account the configuration, the placement and also how much is in this sea of wind pillars,"

"This is something we must consider, whether we need to exclude everything from nature conservation. Because when we exclude everything, these nature conservation areas need to be developed. They also need something more. And if there are solutions, or we know more about the sea and the information from the marine areas, then there are solutions for synergies, then we can even co-exist in the nature conservation area. It's a way of thinking and, of course, when you have the nature conservation area for the birds, you don't put the windmills there. This is the right thing. But some solutions can co-exist when you are protecting the seabed or something else. We are making this kind of a change when you think you don't have to exclude offshore wind energy production when you find something valuable there. You have to see how they can co-exist. When considering biodiversity initiation, you must take 30% into nature conservation from the sea areas. Otherwise, in Green Deal or Fit for 55, you must have a lot of offshore wind, which is why the initiatives conflict. And there is room for discussion on how we can mix them so they are not conflicting. And that is why it also connects to the thinking that nature conservation can co-exist with offshore wind energy. There are some changes in the traditional ways that we are used to. And these changes are hard, but still, they are going to take place,"

informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022 informant #20 – governmental official, Estonia, pc, February 1, 2022

"Generally, the deeper the wind turbines need to be installed, the more expensive and complicated it is. So the developers of these projects, marine geologists and hydrologists, look at where there are shallower places, so basically, they look at shoals where it could be done. Then they consult with environmental experts because, fortunately or unfortunately, usually also shoals and these unevennesses on the seabed are the ones where there is better biodiversity, where there are fish, plankton and everything else... that is not there, various living creatures. This means: if such an anthropogenic-artificial intervention is carried out there, it means that it has potential risks of damaging the ecosystem, significantly changing some processes in nature, and even reducing biological diversity. Of course, there are situations where the installation of wind farms changes their species composition or biological diversity... nominally does not reduce totals but changes the presence and proportion of different species. That is true. And where there were some fish or some sea creatures before, they, let's say, no longer live there, but others move in. And then marine biologists have to weigh, say, whether it's promoting the spread of invasive species into some range where they weren't common before, and so on. At the same time, it has also been established: if, for example, such shoals are artificially created at the bottom of the sea by laying concrete blocks of various shapes, then in a place where previously there was a fragile biological diversity, and there a wind turbine was built, and its mast was concreted, a huge biological diversity suddenly appears there, because the fish and all the other living things really like having those concrete blocks, that mast. And she doesn't mind that vibration at all. Respectively, one should look at short-term and long-term interventions in this natural environment. If laying the cable and concreting the foundation is a short-term intervention, then we have to look at how long... and evaluate how long the ecosystem will recover and recover, because it is a short-term intervention. Of course, if it is estimated that some species will be lost there, and it is proven that they will not adapt to the new conditions, then it is likely that there will be a conflict situation."

> informant #49 – MSP expert, Latvia, pc, March 22, 2022



**IDEA.** "To not build the wind farm, if we are under the migratory route and, if we are not, then we can build it, but if the birds are flying or using this area, we can just stop the rotors just for those days or even for those hours, when the birds are flying when the birds are using this area. And I think if on the ground the birds are staying in the same area all the summer or coming there in early spring and leaving in late autumn, so, in the sea, it's, I guess, fewer days of migration. The migration is maybe dense, but it's lesser days of migrations. Of course, we have to prove this through the research. And the measures will be the same; to stop wind rotors for the time when birds are flying,"

informant #46 – spatial planner, Lithuania, pc, March 10, 2022



IDEA. "About the migration of birds and the migration of bats across the Baltic Sea, which also happens, that there are some areas or corridors where it could be that not all along the Baltic Sea as a geographical area, but there are separate corridors where physical restrictions might have to be imposed, how many turbines can be located there, and maybe even what power or size turbines can be located there in places close to bird migration sites, or how many turbines can be installed on different shoals in the Baltic Sea. Also, there are some large shoals in the Baltic Sea, on which completely authentic and original ecosystems are not repeated elsewhere. In these special places, certain species are present, and if too much anthropogenic load is created there with these turbines, then those species can disappear. It threatens specific species. And then the calculation is this: if these species have no detectable presence in other places in the Baltic Sea, then, of course, this particular place should be treated very carefully because it is the only place of residence for the particular species,"

informant #49 – MSP expert, Latvia, pc, March 22, 2022

# 6. XII. CHALLENGE NO. 12: CLIMATE CHANGE (CC) CONSIDERATIONS

"I think one challenge would also be adapting to the changing ecosystems, to adapt to the possible impact of climate change, for example. Can we change and transform MSP to consider all those changes? I think this will be a big challenge because we are already seeing fast and rapid changes in the ecosystem, in winds, in the ice cover and so on,"

informant #28 – NGO representative, Estonia, pc, February 16, 2022



- The challenge of CC considerations relates to the best practice <u>"5. XII. Example No. 12: Integrating climate change (CC) issues into MSP."</u>
- The BSR continues to recognise the importance of CC as a challenge.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>VASAB Secretariat, 2021g.

"Climate change considerations are included so that the Danish MSP reserved many areas for wind energy, energy islands, and renewable energy in general. And in these political negotiations... I think the result of those negotiations will be that there should be even more areas for renewable energy. But protection of carbon habitats or something like that... you know, the ocean climate nexus is not included in the plan,"

informant #65 – NGO representative, Denmark, pc, June 16, 2022

"If people are aware of few things: thing number one for me, MSP now is an essential tool for handling the adaptation to climate change, to the changes in the ocean. So, making people aware of using MSP as a tool for adaptation for me is the biggest challenge, and we all have to understand that this is not real, you know, no one's land. It's an essential part of our country that needs to be protected, and it can be protected by proper planning,"

informant #44 – MSP researcher, Poland, pc, March 15, 2022

"There are some areas where it's clear that climate change has to be considered – for instance, this eutrophication issue. There are also short issues where you do not have a long response time to the system, so you can immediately adapt... later to correct something. But this is not true for the ecosystem, and one needs to be careful to look at the different scales. There should be a holistic approach that takes all the compartments into account – the sea, the land, but also the atmosphere because pollution, for instance, is also coming from the atmosphere,"

> informant #59 – MSP researcher, Germany, pc, April 4, 2022

- CC in ocean conditions and marine ecosystem structure and functioning will create changes in the distribution and intensity of ocean-related human uses, resulting in ever more crowded space at different scales in novel conflicts and exacerbating the current ones between different sea uses, creating new environmental pressures, and legal issues, all of which are at the heart of MSP.<sup>1</sup>
- The integration of CC issues in MSP is very complex and requires complex solutions, including research on how MSP can contribute to climate change matters.



**FUTURE TRENDS.** The MSP will be supplemented by future climate science knowledge and data through improved data, models, and scenarios, which necessarily will come. First, planning and mitigation efforts should occur with future ecosystem values in mind. Therefore, more scientific and practical research is required for the climate refugia concept concerning MSP<sup>3</sup>, further exploring such factors as nutrients, extreme values (e.g., recurring heat waves) and uncertainty and creating the system to rank areas by probable importance to account for uncertainties (by probability given different models/scenarios) (a graded map of change). The last aspect is raising awareness at the regional and national levels and publicly and disseminating information through different events, including the materials in an easy-to-understand language like a Fact Sheet.

Source: aggregated from VASAB Secretariat [Joacim Johannesson, Markus Meier, Johannes Paulsen, Oscar Tornquist], 2021g; UNESCO-IOC, 2021f.

<sup>&</sup>lt;sup>1</sup> Frazão Santos et al., 2020; VASAB Secretariat Frazão Santos], 2021g.

# 6. XIII. CHALLENGE NO. 13: LAND-SEA INTERACTIONS OR INTERFACE (LSI)

The challenge of land-sea interactions relates to the best practice – <u>\*5. XVI. Example No. 16: Land-sea interactions or interface (LSI).</u>

"In Poland, the problem with landsea interactions is that, when you are a municipality, the authority ends by first contact with the sea. Everything that is land is for the municipality, and everything after that is MSP, so it's controlled by maritime offices."

> informant #53 – spatial planner, Poland, pc, March 28, 2022

"My impression when it comes to planning the sea areas is it ends at the coastline, and there's not too much thinking beyond that. Somehow I can understand because the uses are quite different, of course. If you stand on the beach and take one step into the water, you change the area. Of course, they are strongly interconnected, but in terms of planning, it's more like we plan, but we do on the sea and in the sea and on the ground of the sea, and other departments plan what is done at the beach and beyond the beach,"

informant #58 – project manager, Germany, pc, March 31, 2022 "In relation of upcoming wind energy business to Lithuania to the sea, I don't see a solution, being able to accommodate land-based facilities, I don't see the logistical problems to be solved... because we need to put all those parts somewhere, we need to establish the service, we need to have an entire chain of new business somehow at least at the plan level, strategically. I wouldn't say that the land and sea interaction is practically established, but on the theoretical level, document level... we can call it: yes, having it as a comprehensive plan theoretically solves this. Partly,"

informant #41 – spatial planner, Lithuania, pc, March 10, 2022

"And then I think, the land-sea interactions perhaps is another challenge. The land-sea interactions and the conflicting interests we see... we need to do much more to achieve good environmental status in the Baltic. I mean, a lot more. It's not like good enough to not make it worse,"

informant #51 – governmental official, Sweden, pc, March 24, 2022

#### 6. XIII. CHALLENGE 13: LAND-SEA INTERACTIONS OR INTERFACE (LSI)

"It's a clear divide between where MSP goes. If you look at terrestrial planning in Denmark, we have three levels, right? We have the national one, the regional one and the municipality one. And the municipality one and the national one are strong in terrestrial planning, but in marine planning, there's only a national one, and they don't include the municipalities. Many of the municipalities had no idea what would be the outcome of the MSP, right?"

informant #52 – MSP researcher, Denmark, pc, March 24, 2022

"MSP must be seen about the state of the sea, which is why it is needed. There is, for example, inland land on which the state of the sea mostly depends. Agriculture and agricultural pollution have a significant impact. This is where the fragmentation of planning manifests itself very well. This is not only a problem for Latvia. It is a problem for the whole of Europe, if not more widely,"

> informant #21 – MSP researcher, Latvia, pc, February 1, 2022

"At the moment, it is the case that, taking the same municipal wastewater, we have treatment facilities, but they do not completely solve the problem of new chemicals, dangerous substances or new industries, or the discharge of medicines into the Baltic Sea. And if we could tie it all together, what we do on land and understand how that affects the marine environment and that we get back with fish and food and a beautiful beach. Land-sea interactions will also be one of the most important topics in the coming years. Let's be realistic: it is cheaper and easier to do all this on land than to go to the sea now and try to purify the sea water there. Nothing is possible there anymore,"

informant #17 – MSP researcher and practitioner, Latvia, pc, January 24, 2022

"But it is also clear that the marine park also connects to the coastal municipality at some point, and the adjacent properties are also affected, so we cannot separate that the marine park would be a separate organism and not affect any property, personal freedom and space at some point, so they cannot be separated from each other either."

> informant #48 – business representative, Latvia, pc, March 22, 2022

#### 6. XIII. CHALLENGE 13: LAND-SEA INTERACTIONS OR INTERFACE (LSI)



**IDEA.** "Theoretically, in the law, we have this way of connecting development planning on land and water, but in practice and from the practical point of view, it is not perfect. And in some aspects, we should strengthen the cooperation between Maritime Office and local authorities, plus for such specific areas as port areas, I believe that we should prepare one plan, and this plan should be prepared either by the local authority in cooperation with the maritime administration or maybe the procedure of maritime plan, and land plan should be linked, for example, by common public discussions or common procedure of getting those agreements,"

informant #50 - spatial planner, Poland, pc, March 23, 2022.



**FUTURE TRENDS.** A current tendency appears to be the standardisation of marine policies and the resulting phenomena of the administration's shift to the regional and municipal levels.

Source: UNESCO-IOC/EC, 2021.

### 6. XIV. CHALLENGE NO. 14: DATA AND KNOWLEDGE AVAILABILITY

- Data and knowledge drive the MSP process (see also the best practice <u>"5. XIII. Example No. 13: MSP as the knowledge base"</u>).
- The "use of the best available data" and the Member States' own methods for handling the information exchange necessary for MSPlans are both mentioned in Article 10 of the MSP Directive. Member States must employ the appropriate tools and resources presently available under the integrated maritime policy and other relevant Union policies, such as those mentioned in the INSPIRE Directive, in this process.
- Following the MSP Directive, such as aquaculture areas, fishing areas, maritime transport routes, offshore wind installations and infrastructures (Article 8.2), data includes environmental, social, and economic data and the physical characteristics of marine waters.



**IMPORTANT.** Recital 24 of the MSP Directive states: "With a view to ensuring that maritime spatial plans are based on reliable data and to avoid additional administrative burdens, it is essential that Member States make use of the best available data and information by encouraging the relevant stakeholders to share information and by making use of existing instruments and tools for data collection, such as those developed in the context of the Marine Knowledge 2020 initiative and Directive 2007/2/EC of the European Parliament and of the Council [INSPIRE Directive]."



BEST PRACTICE EXAMPLE. "Collaboration plan (2015- 2017) in Northern Bohuslän, the Västra Götaland county administrative board developed its long-standing collaboration with the four coastal municipalities of Strömstad, Tanum, Sotenäs and Lysekil, as part of the Coastzone project and the Cooperation Plan for Valuable Coastal and Marine Areas in Northern Bohuslän. The joint work has involved the production of planning data that could be important for future marine spatial planning."

Source: European MSP Platform, 2022h.

#### 6. XIV. CHALLENGE 14: DATA AND KNOWLEDGE AVAILABILITY

"It's also unclear what the environmental impact is from offshore wind farms in the long run, right? Because it's mostly in the phase where you implement it, there's also the matter of how long it can be there and what will happen after its exploitation time is dead [finished]. I mean, there's also this debate whether you should leave the older infrastructure. like at least the foundation of it. because then it can already have become, you know, habitats for many animals. It's expert knowledge. So, the proof is not that clear to interpret. I've read both opinions about that: that it's a good thing to leave the turbine foundations. And I also read that: no, no, we need to remove our carpets again from the oceans, right? But it's not that clear. And it's also with artificial reef effects that you hear about that some wind farms, for example, attract some species. There's not a clear overview of what species are attracted and under which circumstances, and is it nice for the ecosystem as a whole? How will these species interact with all the elements? So, many challenges have to do with a lot of knowledge we don't have, right?"

"The thing that we are missing a lot is the knowledge on the birds' migration routes. We know they migrate from north to south and then from south to north. But how do they do that? It's not so easy: it's international monitoring or research or the countries do their research in their areas, for example, as in Lithuania also for the environmental impact assessments of the offshore wind park, we are watching the birds, how do they migrate through our area, but we don't know how they act further in Latvia, Estonia or do they go to Finland or where do they go? And we don't know the exact way of migration through the Baltic Sea. If we had this knowledge, all the countries could leave the spatial space for these corridors, enough for them to migrate safely. But in my opinion, this is a huge knowledge gap. We know the areas on the land where all the birds come and feed and stay for the night, but not in the sea. We know the main direction, but we do not know the details about these flights, about the necessary corridor to be saved for migration,"

informant #52 – MSP researcher, Denmark, pc, March 24, 2022 informant #46 – spatial planner, Lithuania, pc, March 10, 2022

#### 6. XIV. CHALLENGE 14: DATA AND KNOWLEDGE AVAILABILITY

"Such research in the sea, in the territory of Latvia, has practically not been carried out, and most of the measurements so far in the Baltic Sea, in the territorial waters of Latvia, are not even there. We have modelled data for mostly everything: noises and drifts, so exploring it could be challenging and unique. No one knows what's hidden down there until the very end,"

informant #48 – business representative, Latvia, pc, March 22, 2022



**APPROACH.** For example, the extent to which MSPlans promote the development of the blue sectors can be measured using the number of jobs or the number of operating companies.

Source: informant #24 – MSP researcher, Germany, pc, February 8, 2022.

- One of the main issues with the data in MSP is that it takes years to get the latest data, or it is not available at all.<sup>1</sup>
- Some data issues (e.g., the longevity of the construction of wind farms) are more topical than others.



EC. 2014. Marine Knowledge 2020: roadmap. SWD(2014) 149 final. Available at: <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=SWD:2014:149:FIN">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=SWD:2014:149:FIN</a>

<sup>&</sup>lt;sup>1</sup> informant #24 – MSP researcher, Germany, pc, February 8, 2022.

### 6. XV. CHALLENGE NO. 15: UNCERTAINTY

- Challenge 15, "Uncertainty", correlates with all the previous difficulties, specifically Challenges 8 to 14, and relates to the best practice – <u>"5. XVII. Example No. 17: Scenario work."</u>
- Most of the decisions in the MSP process have to be taken under uncertain circumstances.
- Uncertainty coupled with change is one of the critical challenges for ocean governance.<sup>2</sup>

"I mean, the challenge is: we can only include in the planning based on what we know, right? So, it would be best to make case studies and models about... where you have pilot studies of the effects and then models to scale it all up. But that is the challenge that there's so much we don't know,"

informant #52 – MSP researcher, Denmark, pc, March 24, 2022

"I mean, first, of course, is knowing what people will want to use the sea for in 20, 30 years. Of course, it's impossible to know because we don't know how society will develop. We don't know what technologies will come and sort of change preconditions. But we need, of course, to plan based on what we know today and involve stakeholders,"

informant #23 – MSP researcher, Sweden, pc, February 7, 2022 "The challenge is to consider all the different knowledge that is around. A lot of knowledge has not been used, but there are a lot of knowledge gaps, which would require uncertainty planning. It's a bit like this example with the sea level rise; you need to plan so that you don't know how much the sea level will rise. If you know that that it might get even higher than you plan now, then you plan simply in a way that the coastal protection might be adapted for the future in a way that this is effective in taking higher sea level into account,"

informant #59 – MSP researcher, Germany, pc, April 4, 2022

- As a strategic approach, MSP must accept unpredictability and consider new problems. Planning tries to handle the effects and opportunities of technological development, new uses, and a changing climate that alters ecosystems and shifts species distribution.<sup>1</sup>
- Uncertainty can be reduced by setting measurable/verifiable objectives, so-called SMARTIE objectives<sup>2</sup> and facilitated through scenarios.

<sup>&</sup>lt;sup>1</sup>S (specific), M (measurable), A (achievable), R (relevant), T (time-bound), I (inclusive), E (equitable); <sup>42</sup>UNESCO-IOC/EC, 2021.

### 6. XVI. CHALLENGE NO. 16: MSP BUDGET

- Challenge 16, "MSP budget", correlates with all the previous challenges and is related to all the Best Practice Examples.
- According to reports from the last ten years, funding the MSP process and implementation is one of the biggest obstacles to creating and finishing MSPlans.<sup>1</sup>
- As a result, the budget allocated for the MSP process or the other associated processes or its constraints present one of the most significant stumbling blocks for the efficiency and effectiveness of the MSP process and its overall quality.
- MSP can only be implemented with sufficient funding. Governmental responsibility for MSP is fundamental, but a recurrent issue arises when financing that might be available for MSP pilots is unavailable during the whole planning process.<sup>2</sup>

"When the directive was adopted and implemented legally in Denmark, we didn't get any money from the government to make the plan. So, it had to be as inexpensive as possible to make the plan,"

informant #64 – MSP researcher, Denmark, pc, May 12, 2022

"And resources are, of course, quite limited in regions, which is also a challenge. It's also a thread that if we don't have enough resources in the future, then the MSP is the first thing that will be pushed away. And we have to make these legally binding plans first,"

informant #35 – regional official, Finland, pc, February 24, 2022 "But the problem is: do the scientists have the time to participate in this expert network, produce the numbers, and work on the basic theoretical needs? I think that we have now written down in the factsheet what is needed and what are the knowledge gaps, but now it's also time to get funding for closing the knowledge gaps and for the production of information,"

informant #59 – MSP researcher, Germany, pc, April 4, 2022  In this regard, the budget can also affect the availability of data that in turn has an impact on the quality of MSP even though the funds allocated for MSP itself seem sufficient.



**IDEA.** The establishment of a specific regional fund to finance plans can act as an incentive for their development in regional areas shared by several coastal countries with marine space/use conflicts or problems of a multijurisdictional nature. For instance, the creation of a memorandum of understanding (MoU) between nations to divide costs or financial resources.

Source: UNESCO-IOC/EC, 2021

"In the future, the main challenges are a lack of financial means and data. I mean the classical ones, but if we put more and more activities at sea, we need to have better and better assessments of the collective pressure, and we only get that by having a lot of data. And we have to have some good models to model these collective pressures, and then that cost money, so that's how it is,"

informant #43 – governmental official, Denmark, pc, March 14, 2022



**IDEA.** Also, financing options for combating climate change might be used to fund some particular MSP process tasks or marine spatial plan goals. For instance, grants for the conservation of climatic refugia or funds for blue carbon programs that attempt to mitigate climate change through the conservation and restoration of ecosystems that can trap and store carbon, such as mangroves and seagrasses, if they are present in the planning area.

Source: UNESCO-IOC/EC, 2021

### 6. XVII. CHALLENGE NO. 17: ADAPTIVENESS OF PLAN

- Challenge 17, "Adaptiveness of the plan", correlates with all the other challenges.
- Although the adaptive nature of the MSP is one of its feature characteristics (see also <u>Section 2. IV. Steps of MSP</u>), in practice, the ability of the plan and process to adjust to changing environmental and societal needs to be tested.

"We must be adaptive, see what happens, and then follow the maritime sectors. For example, we can't control technological development, and entrepreneurs will choose the most suitable places. After the evaluation of the plan, we will have to adapt to the situation and use the best possible available data we have at that time,"

lot is the adaptiveness of the plans, because according to all the guidelines and recommendations, adaptive management is the key word for an MSP,"

"One issue that I have started to reflect a

informant #34 – regional official, Finland, pc, February 24, 2022 informant #26 – governmental official, Sweden, pc February 10, 2022

# 6. XVIII. CHALLENGE NO. 18: CONNECTION WITH OTHER POLITICAL DOCUMENTS AND LEGISLATION

"And we are sometimes lacking that, we have strategies, we have objectives and so on, but then the actual sort of translation to the physical claims in terms of land or water areas is not clear. We have a strategy for regional development, energy and climate targets, climate strategy, etc. But they are maybe too overarching... I mean at a very general level, and then the question is, how do we achieve this and then mix them? Energy is an easy example, but what does it mean? Does it mean offshore wind energy or onshore wind energy that is not stated,"

informant #51 – governmental official, Sweden, pc, March 24, 2022

Challenge 18, "Connection with other political documents and legislation", is also connected with a number of other challenges and, more specifically, with <a href="Challenge">Challenge</a> No. 1: <a href="Implementation">Implementation</a> and <a href="Challenge No. 17: Adaptiveness of the plan">Challenge No. 17: Adaptiveness of the plan</a>.

"Nationally, we don't have targets for how much we need offshore wind energy. So, at the government level, they haven't made any goals that this much offshore and inland wind energy production is needed. So, it helps, but it would be more helpful if we could have some exact numbers from the state level that this much offshore wind energy production must be applied, and then this is how much we need room for offshore wind energy production. We have a total target, but it's not divided into how much offshore and how much inland."

informant #35 – regional official, Finland, pc, February 24, 2022

"[Challenge] will make some linkages between achieving goals from different national, regional, and world initiatives and like, proving how the MSP can improve, for example, in achieving good environmental status and how MSP can contribute to renewable energies and other sectors. This is just the first generation of the plan; it is how it is. But we would like to make it a more powerful tool. So, this is the challenge for the future, to make the MSP, let's say, maybe not more intellectual, but to understand more how to connect other sectors."

informant #57 – governmental official, Poland, pc, March 30, 2022

# 6. XVIII. CHALLENGE 18: CONNECTION WITH OTHER POLITICAL DOCUMENTS AND LEGISLATION

- According to scientific studies, MSPlans may have both horizontal and vertical links with other documents.<sup>1</sup>
- The ability of MSPlans to make the necessary connections and connect with the policy planning documents (such as guidelines, plans, and conceptual reports) and strategies of other sectors (so-called implementation tools) if they exist, is more important than the existence of laws and other secondary legal acts in terms of supporting the sustainable blue economy and European Green Deal goals.<sup>2</sup>
- Since some sectors especially require that such documents be adequately developed or that connectivity be formed, this connection must be strengthened. If such a connection is lacking, it might create a lot of ambiguity. Even while MSPlan gives a general sense of the areas, it can prevent industries from making wise judgments. Additionally, it results in a circumstance where the MSPlan lacks the appropriate indicators and values to estimate its execution and conduct the required evaluation realistically.<sup>3</sup>

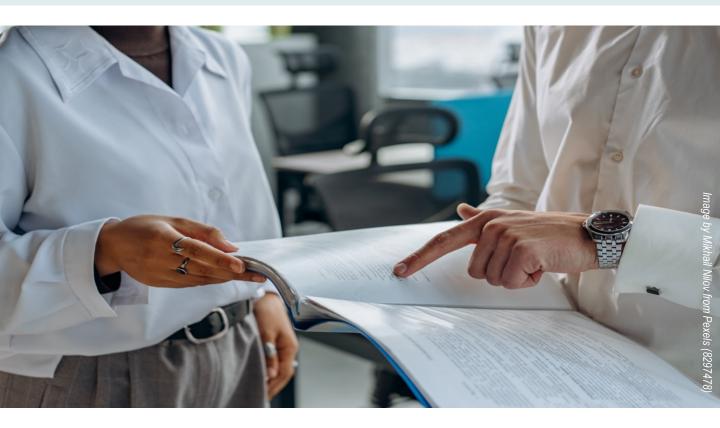
"Hiiumaa people who are against this wind park say: in Eastern Estonia where we have these burning stoves, let's mine this oil shale and make the electricity from oil shale. Why should we ruin the view of Hiiumaa? There are legends that the fish do not cross the cables. And the cables and all the staff are destroying wildlife. People were asking why you wanted so many megawatts to be put around the Hiiumaa. And for me, no documents from the state level would help me to say that there should be 2 000 megawatts from these areas. In Estonia, we don't have to date this. And also, on the mainland, where we plan wind parks, there is the same question. If people are against something, they try everything. And then they say, why do you put so many wind parks in our municipality? How many wind parks does Estonia need? Let's say Estonia needs 1 000 megawatts. But Hiiumaa people say there can be almost 2 000 megawatts in this maritime area. But Estonia needs only 1 000, for who is going for the other 1 000? Why do you put it here? You export it, but why should we see these ugly windmills? We don't know the impact on the fish, and we export it. All these kinds of questions will come. On the mainland, it is also that – why do you put so many wind parks in our municipality our people do not need them? It is actually what the planners need a lot to have a state development plan how much electricity from the wind parks we need, and it is better to show it on areas that how much somewhere should be, "

informant #14 – spatial planner, Estonia, pc, January 21, 2022

# 6. XVIII. CHALLENGE 18: CONNECTION WITH OTHER POLITICAL DOCUMENTS AND LEGISLATION

"MSP is not yet tightly connected with the marine strategy of Finland. But this is something we will work more to. This is because a different auth is under the agency, the Environmental Institute of Finland. Together, their researchers and the Ministry of Environment are responsible for the MSFD. MSP is also under the Ministry of Environment, but now the responsibility lies with the regional councils and actual planners, not environmental researchers. We are still trying to find collaboration and ways. I am part of the national expert group responsible for marine strategy. But I'm the only link, so to say, at the national and regional levels. Our planners are part of the regional Marine Strategy and Water Framework Strategy expertise groups. So, we have connections on an international level and also at the regional level. For us, it's essential to understand how the indicators of the good status of the marine environment work, how they're done, and how they do this. So we can evaluate the importance. And, of course, we did an exercise during the first planning round and put it in a report on how planning and planners can affect these indicators. We evaluated this during the first planning round. We have to do that in more detail during the second planning round to identify the practical steps to support the indicators of the good status of the marine environment. So, it is in our targets; it's our goal to have more coherence between these two processes,"

informant #34 – regional official, Finland, pc, February 24, 2022



# 6. XIX. CHALLENGE NO. 19: TRANSBORDER COLLABORATION



"I think there might be an opportunity to think about making it more coherent in the region. For example, Latvian and Estonian plans are binding, but Swedish and Finnish plans are only guiding. Therefore, they are very different in some cases, but we see in the region also when discussing different themes that usually the problems are the same. Consequently, we have to think more about how can we make it more coherent or how can we make it more understandable to different areas,"

informant #20 – governmental official, Estonia, pc, February 1, 2022 "I think we need to collaborate much better in the Baltic to have a living Baltic Sea in the future with something in it. Because we all depend on the water, all the countries and we are quite a few countries around that all have the borders towards the Baltic Sea,"

informant #4 – MSP researcher and practitioner, Sweden, pc December 7, 2021

Challenge 19, "Transborder collaboration", relates to the Best Practice Example
 <u>No. 14: Transboundary projects</u> and can help to resolve various challenges, such as,
 for example, <u>Challenge No. 9: Cumulative impact at sea level</u>.

"We discussed the common plan for the whole sea ten years ago. There was talk about whether that might be possible, and the consensus has always been. That's also the directive which is saying that MSP is a national competency, and it has to be up to the nations, to the countries, to anchor a plan legally. So, I think the next step might be to strengthen the common vision that we say: for the Baltic as a whole, where would be good sites for offshore wind to work from the perspective of suitability for particular activities and conservation? Habitats and changes are different, and climate change impacts different parts of the Baltic. So yes, of course, it would make perfect sense to take the whole Baltic and say: we'd like to do planning without any borders and decide where we would put things because it makes the best economic and the most ecological sense. But, of course, in practice, it isn't like that cause there are still national policies, national priorities, national governments... And that isn't likely to change. So, I think the best possible solution we can hope for is a stronger common vision; we have common targets or goals or a shared idea of where we want it all to head, right? That needs to be much more rigorously, I think, translated into our national plans so that there is that common vision than just translated for technical reasons into national documents. And when you put them together, these national documents still speak to one goal, one vision. That, I believe, is the best we can hope for now,"

> informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

- Article 11 (cooperation among Member States) and Article 12 (cooperation with third countries) of the MSP Directive sets out the general framework in the transboundary context.
- The cooperation between Member States can be carried out by (a) pre-existing regional institutional structures for collaboration, like Regional Sea Conventions;
   (b) networks or structures of Member States' competent authorities;
   (c) any other strategy like in the context of sea-basin strategies.

"For the future, I can assume: if it is a holistic approach, if it is an approach not only for specific countries but an overall approach from all Baltic Sea countries, then it's certainly beneficial to handle all the different stresses. And I think it's obvious that if one country is reducing loads... if the other country is not contributing similarly, then there will be no changes. So, it is, of course, a coordination of all the different players that must come in."

informant #59 – MSP researcher, Germany, pc, April 4, 2022

"The pressure is so high now for establishing offshore wind farms, but how do we get an overview of the impacts on the entire sea? So, that's also one important issue to look after transnationally. Not to look narrow but to overlook the impact. So, transnational cooperation will also be essential,"

informant #26 – governmental official, Sweden, pc February 10, 2022

"You should have had more directing or steering force in that respect and tried to require national processes to engage in more coordination. Because now, as you say, it's pretty much okay, according to law. to do your national planning up onto the border, and then you don't very much consider what happens on the other side of the border. And, of course, MSP. particularly in a small sea like the Baltic... MSP should be maybe the primary instrument for dealing with those coordination issues. I mean, now we have things like the HELCOM cooperation and VASAB cooperation, for example, which I think to some extent may... well, at least it provides some platforms for coordination. But I mean, that's more coordination in dealing with pollutants, such as pollutant loads, like the Baltic Sea Action Plan, but not so much space allocation. So there MSP should have the potential to play a much more constructive role,"

> informant #23 – MSP researcher, Sweden, pc, February 7, 2022



BEST PRACTICE EXAMPLE. "Germany is very aware of the need to work across borders, so there is a conscious effort always being made to talk to the neighbours and ensure that there is a good exchange all the time actually, not just when the plan is being drafted. So, all the various MSP projects ongoing in the Baltic have been significant. I think Germany is very aware of that and very supportive of that because it has enabled planners to get to know each other. There's this trust; there is understanding. So, I think it's that international dimension that Germany is very aware of and supports."

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022.

"International cooperation... We have tried to put information together in many different projects. In the development of the first plan, however, those solutions, although there was some information and cooperation... however, it was disconnected, also seeing how those plans are different in each country and the approaches are different. Although we talked a lot and exchanged information, that process still happened in each of our own "gardens", and we somehow decided more internally about how we divide priorities or territories. I think that it is essential in the next iteration to have more cooperation and to understand how that marine space was formed together, especially looking at the ecological side of it, because it is all a single ecosystem,"

> informant #13 – spatial planner, Latvia, pc, January 20, 2022

"Transborder issues are complicated because each country works from its energy demands. The countries want to satisfy their demands. They are not working with the whole Baltic Sea perspective when it comes to the impact of all planned, future windfarms and their potential effects on the entire Baltic Sea,"

informant #1 – regional official, Sweden, personal communication November 30, 2021

#### 6. XIX. CHALLENGE 19: TRANSBORDER COLLABORATION



BEST PRACTICE EXAMPLE. "With Germany, we have Polish–German MSP WG. So, it's just for us. We met twice a year and collaborated straightforwardly. So, I think that kind of collaboration is providing that those plans are coherent, despite different names, different colours, and different meanings of the areas that are designated different plan systems,"

informant #57 – governmental official, Poland, pc, March 30, 2022.

# 6. XX. CHALLENGE NO. 20: CROSS-BASIN COMPARISONS

- Challenge 20, "Challenges of cross-basin comparisons", also relates to the Best Practice Example No. 14: Transboundary projects.
- Additionally, there are implemented projects in all European sea basins.<sup>1</sup>
- Lately, it has become increasingly frequent that the projects are implemented in the same sea basin, but across various sea basins, for example, UNITED.
- Here, it has been deduced that the practical approaches tested in the North Sea apply to the Baltic Sea.

"Practical applicability of the solutions of one sea basin to another depends on the focus." on the guestion. For technical applications, for example, because we have such a high significant wave height, a maximum of 60 metres at this platform, powerful currents. And so, if we demonstrate working technical solutions there for mooring, for monitoring drag forces, for example, we can also apply them in the Baltic Sea. Because the Baltic Sea is not that harsh, it doesn't have these high waves like the North Sea. There are some things that, of course, you can transfer to other regions. I would even say word wide. Of course, it depends on the site's location, but if it works at this harsh, extreme location, it will also work in others. But what's bad for species, for example, it's a different point because of the lower salinity in the Baltic Sea. They are two very different sea basins. And all the knowledge we gain now with the species we grow there, we can't transfer them to the Baltic Sea. It depends on where in the Baltic Sea. Maybe to some places with higher salinity, closer to the North Sea. Salinity is too low in the eastern Baltic Sea; we need other species there, so there are some points where we can transfer and learn from it. You have specific locations at some points and must develop and test your knowledge. So, it's a yes and a no,"

informant #39 – MSP researcher and practitioner, Germany, pc, March 10, 2022



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<sup>&</sup>lt;sup>1</sup> European MSP Platform, https://maritime-spatial-planning.ec.europa.eu/msp-practice/msp-projects

#### 6. XX. CHALLENGE 20: CROSS-BASIN COMPARISONS

"We can transfer the knowledge we gained worldwide, I would say, but we have to adapt. The North Sea has much harsher conditions than the Baltic Sea. We have different waves, so we must adapt everything we learned from the North Sea. And, of course, the species have to be adapted. Elsewhere in the North Sea, there's a different salt concentration, so we must look at what can be grown there. Especially we're now focusing on blue mussels in the North Sea, which can't be done everywhere in the Baltic Sea. It can be done almost everywhere, but you have to be clever where you want to market it. For example, in the Baltic Sea, blue mussels don't grow as large as in the North Sea. It depends on salt concentration; the mussels stay slightly smaller in less salty water. You could still use them. With UNITED, we did a lot of things in the North Sea, and I think the next thing should be done in the Baltic to include it at least and use the data we got from UNITED,"

informant #40 – MSP researcher and practitioner, Germany, pc, March 10, 2022



- While national governments continue to unreservedly adopt MSPlans, academic discussions over the effectiveness, application, and potential to achieve sustainability of MSPs are a crucial component.
- As envisioned in much of the MSP literature, sustainable use of marine resources and sustainable activities are constantly and progressively being questioned and considered by the scientific community.<sup>1</sup>
- A significant portion of the pertinent literature is concerned with the success of implementing MSPs, including monitoring, evaluation, and adaptation challenges and the potential of MSPs to create a sustainable outcome, considering the non-static character of the maritime environment.<sup>2</sup>
- According to the European Commission: "Discussing [MSP] is all very well, but it must be introduced and enforced in the real world as well." (see also "6. I. Challenge No. 1: Implementation" in this manual).
- This chapter presents the views of the experts on the effectiveness of the MSP. In this case, the difference from efficiency concerns how well something is done, whereas effectiveness describes how beneficial something is.
- The question of this chapter is to look at the insights regarding the value of MSP.

"I think we have to wait and see. I think it's a good start, at least by giving some suggestions of what not to have there and what it is suited for. So, I think it is a good tool for the region. But now we have to wait and see how important it will be actually,"

informant #4 – MSP researcher and practitioner, Sweden, pc December 7, 2021

"I guess, honestly, we don't know yet what the outcome is if MSP is effective in terms of conflict resolution because plans are one thing, but implementing the plans is another thing,"

> informant #18 – MSP researcher, Sweden, pc, January 25, 2022

<sup>\*</sup> Based on review and references: Neimane, 2020a.

<sup>&</sup>lt;sup>1</sup> Collie, 2013; Jones et al., 2016; Gissi et al., 2019; <sup>2</sup> Carneiro, 2013; Day, 2008; Ehler and Douvere, 2011; Ehler, 2014; Hinds, 2003; Kidd and Ellis, 2012; Plasman, 2008; Schultz-Zehden et al., 2008; Varjopuro et al., 2019; <sup>3</sup> EC, 2010, p. 16.

"I think it's too new to say if it's effective because we haven't evaluated the effectiveness yet. But, I think, it's a necessary tool; it's one of the necessary tools to manage pressures on the ocean environment and also to manage its uses. I think there's an enormous potential; within the maritime industries to meet all these environmental and societal goals that we have on climate change and food production. So, I think it's a necessary tool, but I don't know yet, if it's effective or not,"

"I think MSP is effective because when you want to do something on the sea, this is the first thing you consult, and this is your first contact point, I think, for the developments on the sea area,"

> informant #37 – MSP researcher, Estonia, pc, March 7, 2022

informant #26 – governmental official, Sweden, pc February 10, 2022

"From our point of view, it is an effective tool because it allows us to regulate things that were not regulated before, so, yes, it is. The next sentence would be that it could be a much more effective tool. We have to connect that with other initiatives, which can be even more effective. It's the work ahead of us,"

informant #57 – governmental official, Poland, pc, March 30, 2022

"I think it's a very welcoming way to do it because there was like Wild West before that. Like, nobody knew where it was possible to do and how to do it, and developers wanted to develop, but nobody knew how and where to do it, so... In that sense, regarding climate change and the Paris Agreement, I think it has been positive,"

> informant #28 – NGO representative, Estonia, pc, February 16, 2022

"I think [MSP is] quite an effective tool, but it's insufficient. For some things to happen, a lot of other measures and activities are needed; it's just the basis which allows or navigates you on what is possible and whom to approach and what to expect, but nothing more, I would say,"

> informant #61 – spatial planner, Lithuania, pc, April 5, 2022

"MSP is providing an overview that we did not have before. And that overview provides many insights for different stakeholders, sectors or national sectoral authorities, which is very important. And I think that is the base actually to achieve sustainable solutions. And we have good solutions in the plans,"

informant #51 – governmental official, Sweden, pc, March 24, 2022

"I think it's an excellent idea to have the MSPlan, to have a framework that, at least on paper, it's a good idea to have this. And then you can hope it improves over the years, right? More detailed,"

> informant #52 – MSP researcher, Denmark, pc, March 24, 2022

"From the academic perspective, I guess when the MSP Directive came, there were a lot of policy aspirations around that saying that this will somehow be a sustainable development tool for the coasts and the oceans. And while there is potential for that, we don't have seen that realised because much of it is about stocktaking and zoning and putting all the interests up on the map. There is some consideration of incompatibilities and potential for multi-use and that type of thing. But it's not sort of very radical... It hasn't somehow proved to be a radical shift towards sustainable use. I wouldn't say yet. Maybe on the next - second, third cycle, because much of the first round is putting the institutions in place and, you k20220now, assembling the team and going through the motions of doing a plan. I guess if there is an evaluation and updating of the plans potentially that can improve success iteratively, somehow."

> informant #18 – MSP researcher, Sweden, pc, January 25, 2022

"I noticed that the MSP procedure is valid, it's perfect, but the problem is that it doesn't deal with anything. Is it changing something? It's great for the information; you are easily involved and get to know people, so it's great for networking and getting new information. But is it valid in the way of decision-making? The second thing, I think, is a huge change and usage of the seas. That is more and more new users, and it's challenging. Even though we have a functioning MSP. we are not sure that... I think that the big challenge is that we are not creating too many obstacles for people. In the way that even though we were trying to protect the environment and people, then protect the economy... Aren't we already introducing new obstacles? Are we handling the process? The problem is that MSP cannot do anything directly because it has considered many sea regulations and new sea policies. And because of that, the problem is that the real power of MSP is like harmonising and compromising decisions and not making a change here."

"I'm certain [MSP is effective] because it's already shown that here, for instance, in the case of the routes of the ships which we want to maintain clear or safe. Or here are the spaces already allowed for or reserved for future yet unknown uses, among others. It may also be wind farms, but it also might be other uses we don't know about because we haven't developed the technology or the ideas for these kinds of future uses of the sea. So, thanks to the reservation, these areas will not be cluttered by various things. We have shown where cables should go to have less conflict between a lot of other uses. whether – binding together wind power, shipping, or fishing because the presence of the cables can be an obstacle to fishing. Yes, we have already produced something which makes the space better organised and allows, especially, the Maritime Administration, but not only them, to manage the developments in the sea in an orderly way,"

informant #53 – spatial planner, Poland, pc, March 28, 2022 Andrzej Cieślak, Former Co-chair of HELCOM/VASAB MSP WG, Poland, pc, April 7, 2022

"I think the near future will show us very clearly if the MSP work for us, meaning the way it has been done, as one document with maps that we have to live by for the next ten years; this very static document. Does this work for us in our sea area, given that the technologies are developing quickly? Hydrogen, for example, has only shown up in the last few years. When we started the MSP process, we had no idea about hydrogen production or the possibilities of it. So, I think the main challenge for MSP is adapting to this very dynamic world we're living in. Will it be some relic? Will it be in our way? And will it allow us to make something innovative and participate in this adaption to new technologies? Or will it be an excellent list of principles we can use to share our common sea area? I think that might be the main challenge. This is like a new thing everywhere, so nobody – at least in the Baltic Sea – knows how it will impact our lives in ten years. Will it be good? Will it be bad? Most definitely, sure that the next MSP cycle – if the new MSP is tuned up – will be something very different. But the question is - will today's MSP be enough? We'll see,"

"You're asking me – are they effective in working with each other, so, are they well aligned? I would also say: yes, that's okay. If you're asking me if they are effective in terms of stakeholder integration, I would say they have improved a lot but could probably improve a bit more. So, it makes a difference if we look at which dimension of outcomes. Are they effective as a regulation, as a regulatory instrument? I would say: yes because everyone is implementing the plan. There's no defaulting, no outcry, and no court cases, I think... or nothing major, at least. So, I would say they're doing their job, yes. Could they be done better? Probably. There is always a way for improvement..."

informant #42 – MSP researcher and practitioner, Germany, pc, March 11, 2022

"Whether the MSP will be effective in the case of Latvia – will be shown by the evaluation, which can then be evaluated by itself. Undoubtedly, it will contribute to the territorial organisation of sea use, as will the promotion of other goals; I think the impact may be smaller,"

informant #22 – spatial planner, Estonia, pc, February 3, 2022 informant #21 – MSP researcher, Latvia, pc, February 1, 2022

"I would say MSP efficiency in Poland, at least from the Polish perspective... we need to wait to see the efficiency. Why I'm saying that? I do think that marine spatial planning is essential. It's a good tool, and it's supported by the United Nations, especially in the national adaptation programmes: the MSP is included as one of the tools for the adaptation of the coastal zones to the changes, so I do believe it's an essential tool, however, in Poland... So, we have the tool. Some organisations and institutions are aware of it. But it is still... I would call, from my perspective, 'a grey zone.' It's used whenever you have to or want to, but it's not like, you know: this is it, we have this, and we must comply with that. There are still breaches in the system,"

"I think there is a potential. When done seriously and with good intentions. I think it also has the potential to achieve targets of the EU Green Deal and Sustainable Development Goals, particularly in the way that it can overcome at least partly the sort of traditional, very sectoral focuses. And, of course, to reach anywhere with any green transition, we need to have a much broader perspective than looking at each sector at the time. So, in that way. I think MSP is... I mean, it's not a silver bullet, and it's not going to solve all sustainability challenges relating to the oceans, but I think it's definitely... MSP or something similar to MSP is necessary if we are to have any idea about the cumulative impacts of what we're doing in the marine environment. and also trying to grasp this land-sea interaction or divide, to bridge the divide."

informant #44 – MSP researcher, Poland, pc, March 15, 2022 informant #23 – MSP researcher, Sweden, pc, February 7, 2022

"Regarding the MSPlan, it's cool to have one. We shouldn't just complain that it's all bad, but it's cool that we have one. We have a rough idea of what the areas could be ... We have already developed a kind of framework that we could improve on. As a developer, we still have many unclear guestions about how to get to this area, and this could also be an excellent signal, so to speak, why no area has been assigned to research so far. There is still room for improvement. How exactly... I can't comment. Maybe we should see how it is in other neighbouring countries, the countries of the Baltic Sea region. That's how I could answer this question,"

"The MSPlan should exist so that anyone – both a developer and a representative of their industry – can see, so to speak, what are the open areas, where, what can be done, what are the long-term state priorities for development, so yes, this or a little more adapted the document is necessary. We can't, so to speak, let everything flow and not designate areas that are intended for shipping, that are closed military, that are intended for some economic construction of such wind farms."

informant #47 – business representative, Latvia, pc, March 22, 2022

informant #48 – business representative, Latvia, pc, March 22, 2022

"I would say that MSP is an absolute prerequisite for all industries interested in maritime space to have clarity. And in the case of Latvia, in my opinion, it is enough at the moment. The planning is good and enough for the industry to grow. There will be competitions, and whoever offers the best terms will also have opportunities. Everything is fair. Competition must be fair. Completed marine spatial planning is one of the factors that create this clarity, creates prerequisites,"

informant #49 – MSP expert, Latvia, pc, March 22, 2022

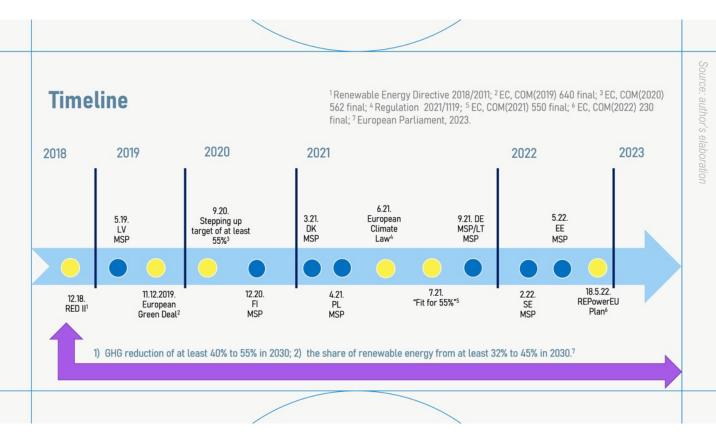
# FUTURE VISION

"What I would like to see over the next decade? I would like to see [MSP] evolve from a novelty concept to a standard approach to any activity at sea, be it traditional or emerging. By then... I think that currently emerging activities or activities that are only at the exploration stage like farming molluscs or seaweed between offshore wind farms should have become standard approaches. I would also like to see any economic activities at sea combined with the objective of nature restoration: artificial reefs, nursery or spawning grounds for fish, seafloor restoration, so, that we'll be able to reach the double objective of climate action and biodiversity conservation or even restoration. So, by 2030 we will see, or we will have seen the second generation of [MSPlans] by all coastal states in the [EU] and beyond probably in the UK as well. Ideally, I think that those will be plans with a purpose and a vision and not only drawing boards that are sketching up how to distribute current uses. And as that purpose MSP would have delivered the objective to have at least 60 [GWs] of offshore wind in EU waters and to protect 30% of maritime space as protected areas by 2030,"

Felix Leinemann, Head of Unit – Blue Economy Sectors, Aquaculture and Maritime Spatial Planning, European Commission (VASAB, 2021b)



 Looking to the future without looking back to the past is unthinkable. At the same time, visions of the future must be mixed with the experience gained and shape today's decisions.



- Looking to the future without looking back to the past is unthinkable. At the same time, visions of the future must be mixed with the experience gained and shape today's decisions.
- However, many challenges remain that need to be addressed both in the field of MSP itself and with the help of the legal framework.
- The implementation of MSP, monitoring and evaluation, as well as public participation and considering social and cultural concerns in MSP, are vital issues the legal framework must address. In light of the aggressive climate targets, issues like maintaining biodiversity and enhancing maritime energy production capability are particularly crucial.

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# ANNEX 2. ACCESS LINKS TO MARITIME SPATIAL PLANS

#### Denmark

Denmark's Maritime Spatial Plan. 2021. Available at: https://havplan.dk/en/page/info

#### Estonia

Estonian Maritime Spatial Plan. 2022. Available at:

http://mereala.hendrikson.ee/kaardirakendus-en.html; https://www.fin.ee/en/state-local-governments-spatial-planning/spatial-planning/maritime-spatial-planning

#### Finland

Maritime Spatial Plan for Finland 2030. 2020. Available at: https://meriskenaariot.info/merialuesuunnitelma/en/merialuesuunnitelma-english/

#### Germany

Spatial Plan for the German Exclusive Economic Zone in the North Sea and in the Baltic Sea. 2021. Available at:

https://www.bsh.de/EN/TOPICS/Offshore/Maritime\_spatial\_planning/Maritime\_Spatial\_Plan\_2021/maritime-spatial-plan-

2021 node.html:isessionid=53E514FAFCD276D3FE47FE6CA5150C50.live11291

#### Latvia

Maritime Spatial Plan 2030. The Maritime Spatial Plan for the Marine Inland Waters, Territorial Sea and Exclusive Economic Zone Waters of the Republic of Latvia. 2019. Available at: https://www.varam.gov.lv/en/maritime-spatial-planning

#### Lithuania

LIETUVA 2030. Bendrasis planas (Comprehensive Plan). 2021. Available at: https://www.bendrasisplanas.lt/

#### Poland

Maritime spatial plan for Polish sea areas on a scale of 1: 200,000. 2021. Available at: <a href="https://sipam.gov.pl/english/maritime-spatial-planning/">https://sipam.gov.pl/english/maritime-spatial-planning/</a>

#### Sweden

Marine spatial plans proposals for Gulf of Bothnia, Baltic Sea and Skagerrak/Kattegat. 2022. Available at: <a href="https://www.havochvatten.se/en/eu-and-international/marine-spatial-planning/swedish-marine-spatial-planning.html">https://www.havochvatten.se/en/eu-and-international/marine-spatial-planning.html</a>

# ANNEX 3. CREDITS TO THE USED ADDITIONAL VISUAL MATERIALS

lcon	Meaning in the manual	Source
	Approach	https://www.flaticon.com/free-icons/approach" title="approach icons">Approach icons created by Taimoor
	Best practice example	https://www.flaticon.com/free-icons/thumbs-up" title="thumbs up icons">Thumbs up icons created by Smashicons
<b></b>	Definition	https://www.flaticon.com/free-icons/target" title="target icons">Target icons created by srip
	Experience gained	https://www.flaticon.com/free-icons/experience" title="experience icons">Experience icons created by juicy_fish
	Further reading	https://www.flaticon.com/free-icons/books" title="books icons">Books icons created by Freepik
	Future trends	https://www.flaticon.com/free-icons/future" title="Future icons">Future icons created by Parzival' 1997
	Legislation	https://www.flaticon.com/free-icons/legislation" title="legislation icons">Legislation icons created by Sir.Vector
-`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Idea	https://www.flaticon.com/free-icons/idea" title="idea icons">Idea icons created by Pixel perfect
	Important	https://www.flaticon.com/free-icons/important" title="important icons">Important icons created by Freepik



**PostDoc** 

Latvia

Eiropas Reģionālās attīstības fonds

**ATTĪSTĪBAS** 

IEGULDĪJUMS