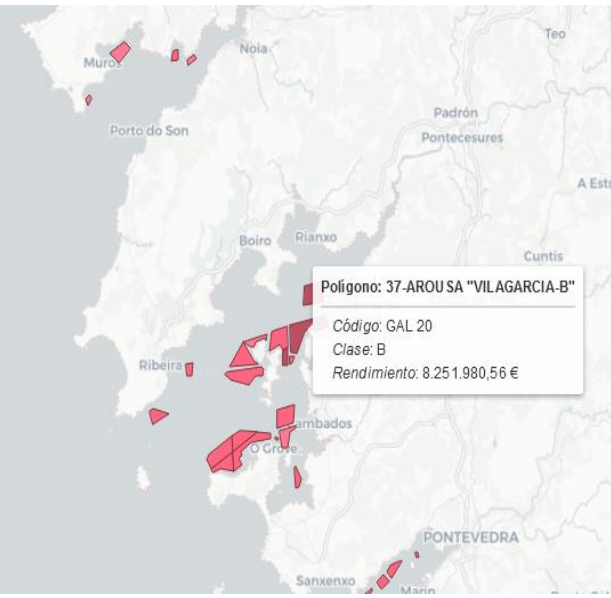
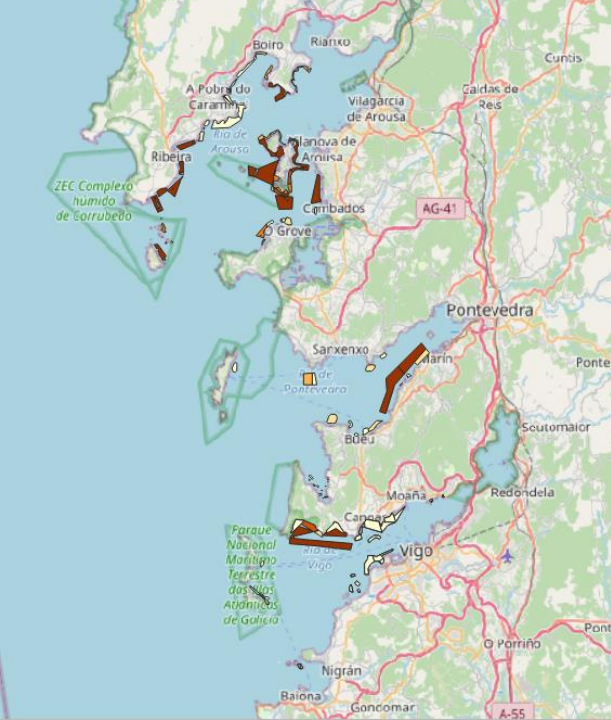



Integrating the socioeconomic dimensions into Marine-Maritime Spatial Planning

Jose Luis Santiago , Davinia Lojo and Marta Ballesteros



A narrow, wet alleyway between brick buildings. The ground is dark and reflective, with yellow double lines marking the road. The buildings are multi-story and made of red brick. The sky is overcast and grey. A large black text box is centered in the lower half of the image.

**Approximately 75 of 150
countries have implemented or are
developing some form of MSP
(Ehler, 2020)**

MSP Data Tools and Guidance Workshop: TEG on Data for MSP, 13 March 2024

What do you consider to be priority topics?

0 2 4

300
participants
worldwide!



Figure 1 : Word cloud introduced in the workshop to map priority areas of focus for the next steps of the TEG on Data for MSP

Economic and social data in MSP



- Support MSP development, monitoring and assessment.
- Provide **evidence on the benefits** stemming from the **plans**
- Help to achieve the objectives of sustainable blue economy strategies
- Foster **public acceptance** and **trust** in planning

BASELINE – BLUE ECONOMY

Marine Policy 42 (2013) 111–124



ELSEVIER

Contents lists available at SciVerse ScienceDirect

Marine Policy

journal homepage: www.elsevier.com/locate/marpol



Marine economy: A proposal for its definition in the European Union



Juan C. Surís-Regueiro*, M. Dolores Garza-Gil¹, Manuel M. Varela-Lafuente²

ERENEA, Department of Applied Economics, University of Vigo. Postal address: Fac. Ciencias Económicas e Empresariais S-N, Vigo, Galicia 36310, Spain



Study on the Economic Impact of Maritime Spatial Planning

Final Report
Abridged Version



MSP Data Study

Evaluation of data and knowledge gaps to implement MSP

Marine Policy 127 (2021) 104443

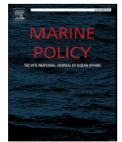


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Contents lists available at ScienceDirect

Marine Policy

journal homepage: <http://www.elsevier.com/locate/marpol>



An applied framework to estimate the direct economic impact of Marine Spatial Planning

Juan C. Surís-Regueiro^{a,*}, José L. Santiago^b, Xosé M. González-Martínez^a, M. Dolores Garza-Gil^a

^a ERENEA
^b Centro

Marine Policy 129 (2021) 104541



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Estimating economic impacts linked to Marine Spatial Planning with input-output techniques. Application to three case studies

Juan C. Surís-Regueiro^{a,*}, José L. Santiago^b, Xosé M. González-Martínez^c, M. Dolores Garza-Gil^a

^a ERENEA-ECOBAS, Department of Applied Economics, University of Vigo, Faculty of Economic and Business Sciences, 36310 Vigo, Galicia, Spain



Study on the Establishment of a Framework for Processing and Analysing of Maritime Economic Data in Europe

Final Report
MARE/2014/45

Copies: CETMAR, Posidon
June 2017



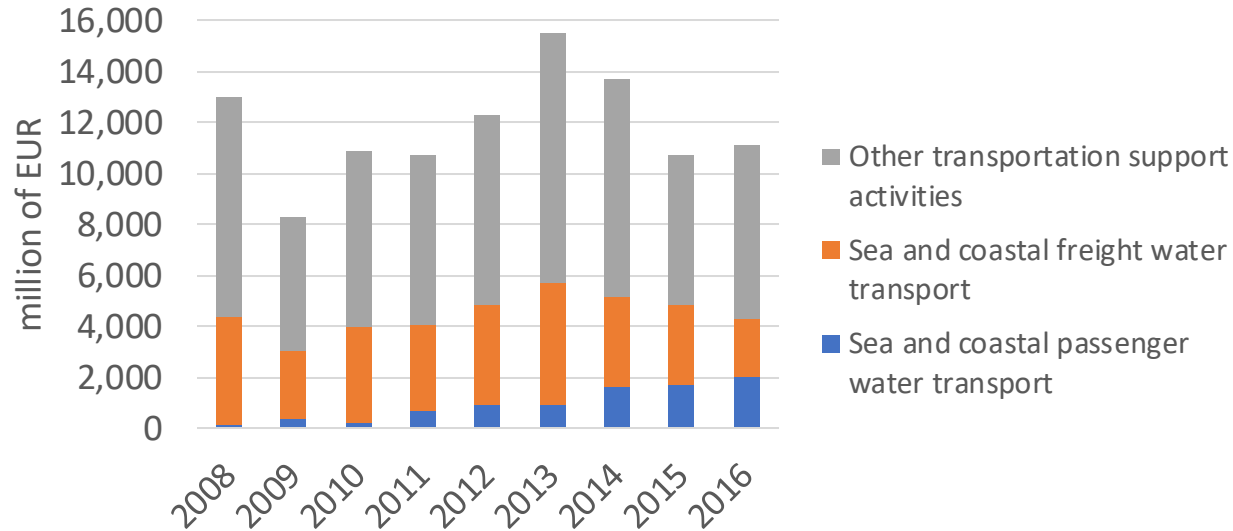
Blue Economy

Group	Sector
Living resources	Fisheries and aquaculture
	Blue biotechnology
Non-living resources	Extraction of aggregates
	Extraction of oil and gas
	Extraction of salt
	Seabed mining
Shipping	Maritime transport
	Ports (including dredging)
Shipbuilding	Shipbuilding
	Ship repair
Renewable energy	Wind energy
	Other renewable energy
Tourism	Coastal tourism
Other	Public sector

		Units: million of €	
Group	Sectors	NA CE Codes	Activity
1. Living Resources	1.1. Fisheries and Aquaculture	A0311	1.1.1. Marine fishing
		A0321	1.1.2. Marine aquaculture
		A0322	1.1.3. Freshwater aquaculture
		G4638	1.1.4. Wholesale of other food, including fish, crustaceans
		C1020	1.1.5. Processing and preserving of fish, crustaceans and
		C1041	1.1.6. Manufacture of oils and fats
		C1085	1.1.7. Prepared meals and dishes
		C1089	1.1.8. Other food products n.e.c.
		C1091	1.1.9. Prepared feeds for farm animals
	1.2. Blue biotechnol	M 72.11	1.2.1. Research and experimental development on biotecol
2. Non-Living Resources	2.1. Extraction of oil and gas	B0610	2.1.1. Extraction of crude petroleum
		B0620	2.1.2. Extraction of natural gas
		B0910	2.1.3. Support activities for petroleum and natural gas ext
	2.2. Extraction of aggregates	B0811	2.2.1. Quarrying of ornamental and building stone, lime st
		B0812	2.2.2. Operation of gravel and sand pits; mining of clays a
		B0899	2.2.3. Other mining and quarrying
	2.3. Extraction of salt	B0893	2.3.1. Extraction of salt
		C1084	2.3.2. Manufacture of condiments and seasonings
	2.4. Seabed mining	B0710	2.4.1. Mining of iron ores
		B0721	2.4.2. Mining of uranium and thorium ores
		B0729	2.4.3. Mining of other non-ferrous metal ores
		B0990	2.4.4. Support services to other mining and quarrying
	2.5. Desalination	E3600	2.3.1. Water collection, treatment and supply
3. Shipping	3.1. Maritime Transport	H5010	3.1.1. Sea and coastal passenger water transport
		H5020	3.1.2. Sea and coastal freight water transport
		H5229	3.1.5. Other transportation support activities
		K6512	3.1.6. Non-life insurance
		K6520	3.1.7. Reinsurance
	N7734	3.1.8. Rental and leasing services of water transport equip	
	3.2. Ports	H5210	3.2.1. Warehousing and storage services
H5222		3.2.2. Service activities incidental to water transportation	
H5224		3.2.3. Cargo handling	

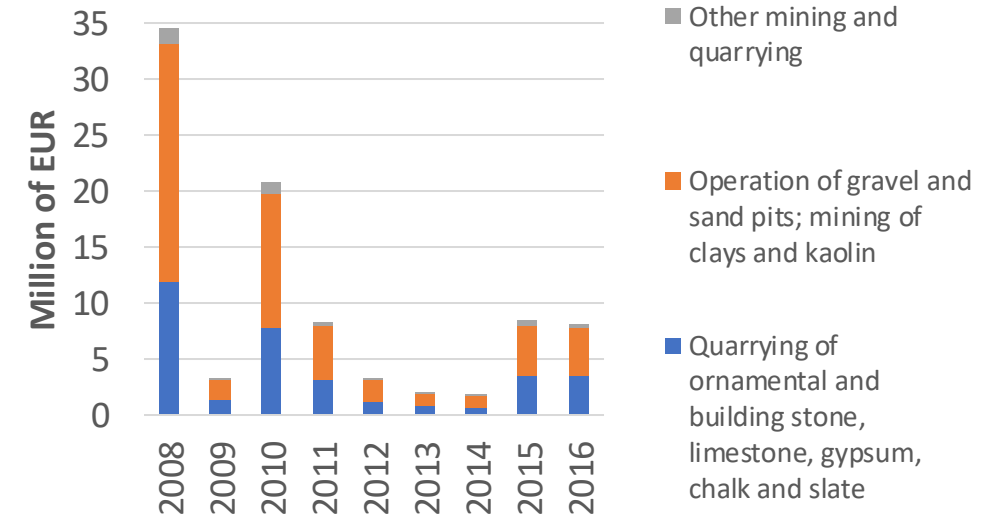
Why it matters?

ECONOMIC PERFORMANCE OF SHIPPING SECTOR (BALTIC SEA BASIN)

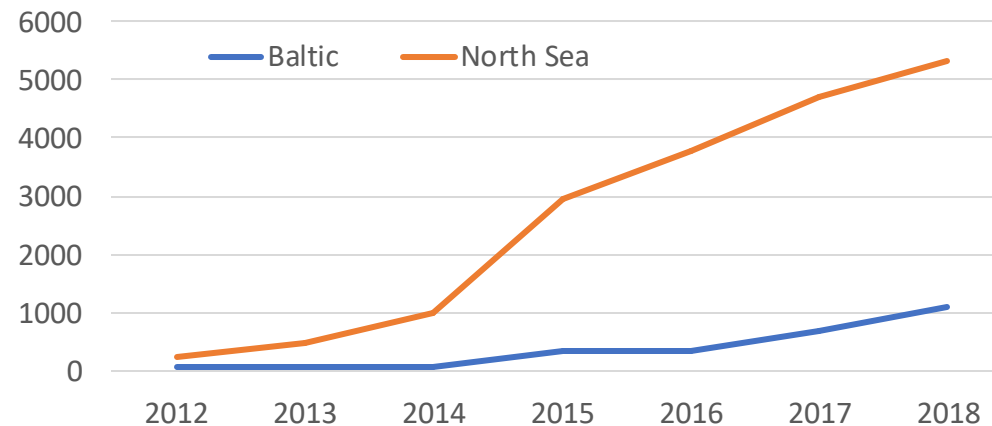


Source: Eurostat

EXTRACTION OF AGGREGATES SECTOR (BALTIC SEA BASIN)



MW INSTALLED WITH GRID CONNECTION IN THE GERMAN EEZ



Source: Deutsche WindGuard GmbH for renewable energy

Why it matters?



Katila, et al., 2019

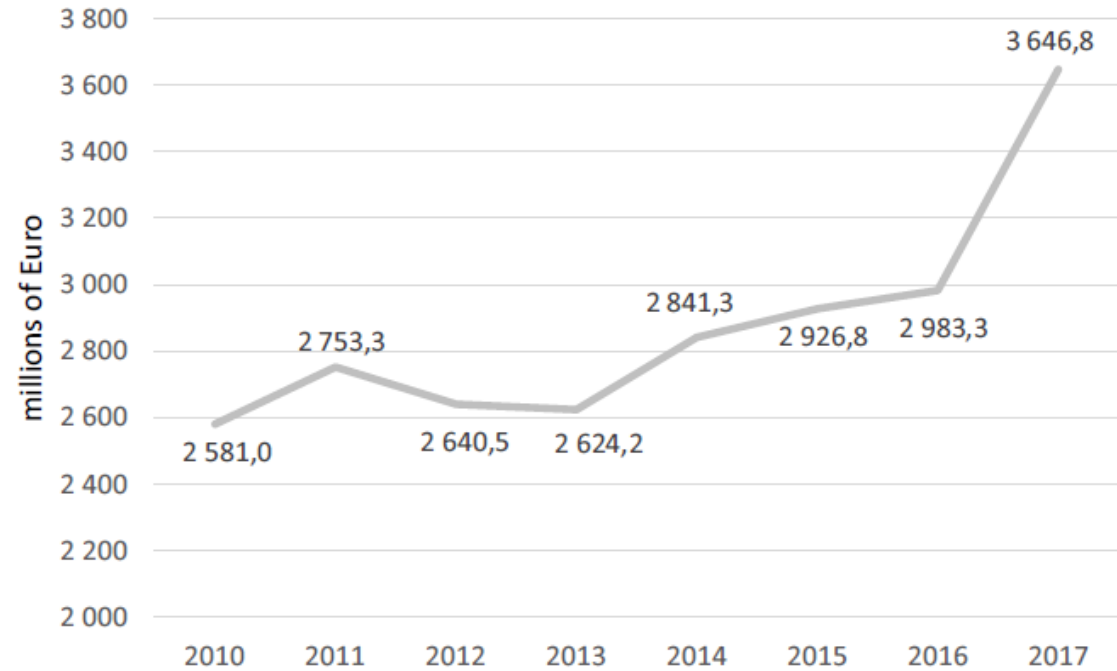







FIGURE 3

The size of the Polish blue economy in 2010–2017. Source: own elaboration.

Kwiatkowski and Zaucha, 2023

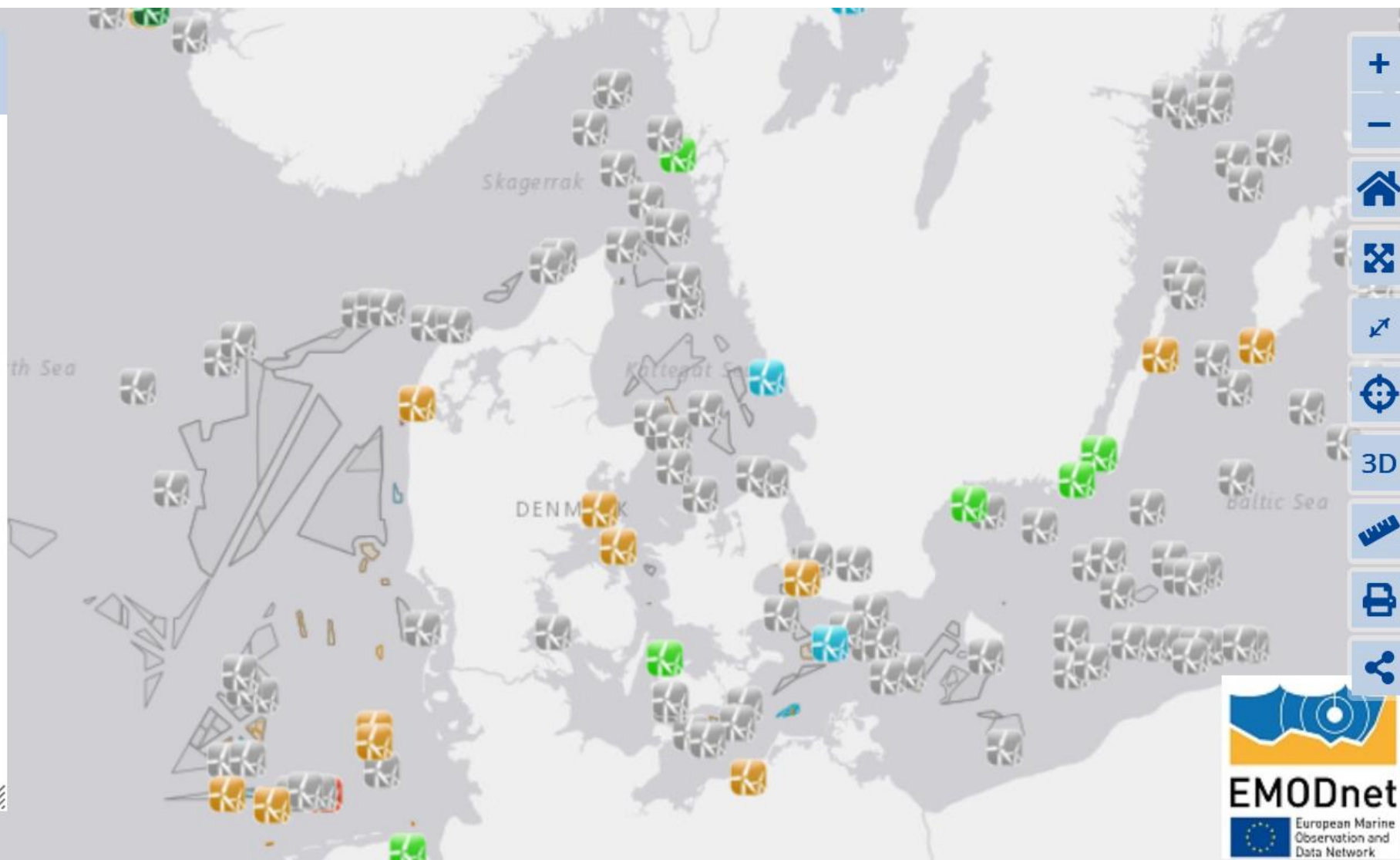
Legend

Wind Farms (Points)

-  Approved
-  Dismantled
-  Planned
-  Production
-  Under Construction
-  Test site

Wind Farms (polygons)

-  Approved
-  Dismantled
-  Planned
-  Production
-  Under Construction
-  Test site



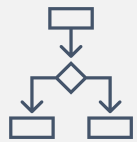
TECHNICAL EXPERT GROUP: SE IN MSP



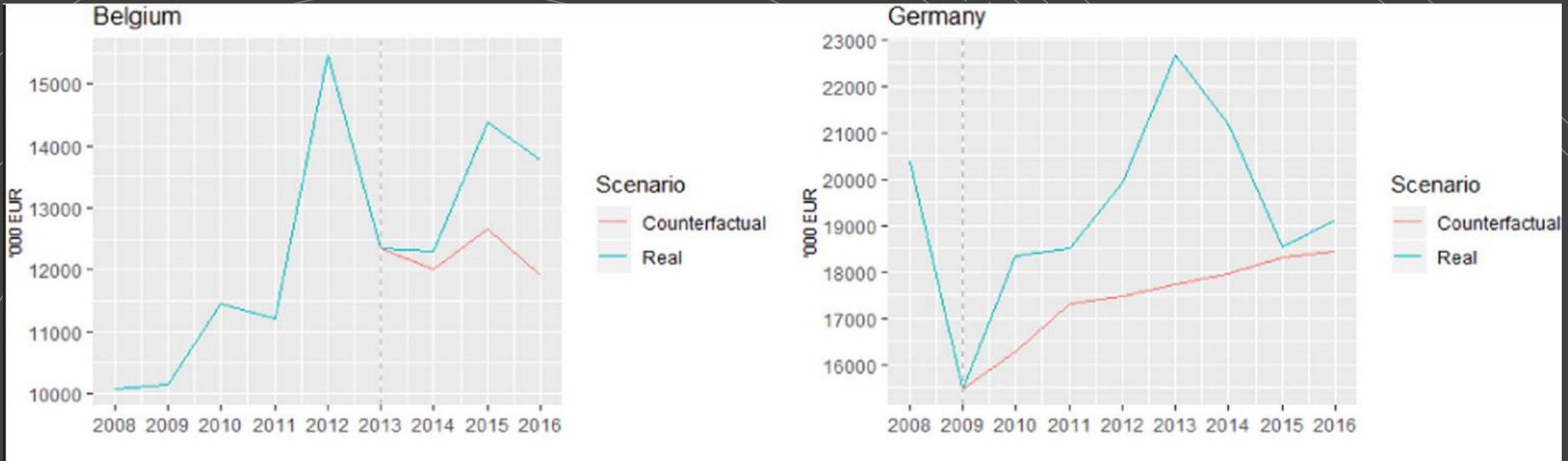
To deliver **practical ways** to integrate the economic and social dimensions in MSP.



To **advance knowledge and methodological approaches** for gathering data.



To support **evidence-based decision-making** by integrating the socioeconomic dimension.



Surís-Regueiro, J., Santiago, J.L and González-Martinez X.M, 2021

Addressing MSP questions

- Are there economic and/or social benefits stemming from the implementation of Marine Spatial Plans?



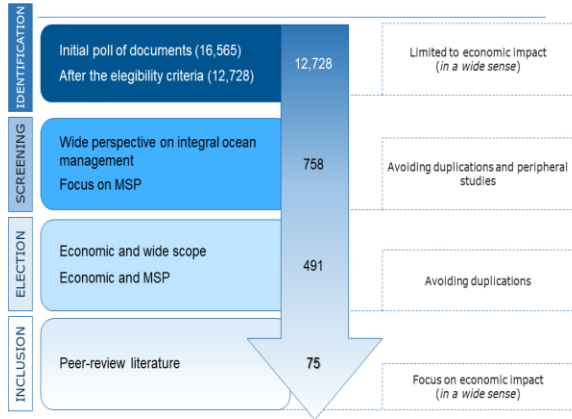
Literature review

+

Survey

+

Expert knowledge

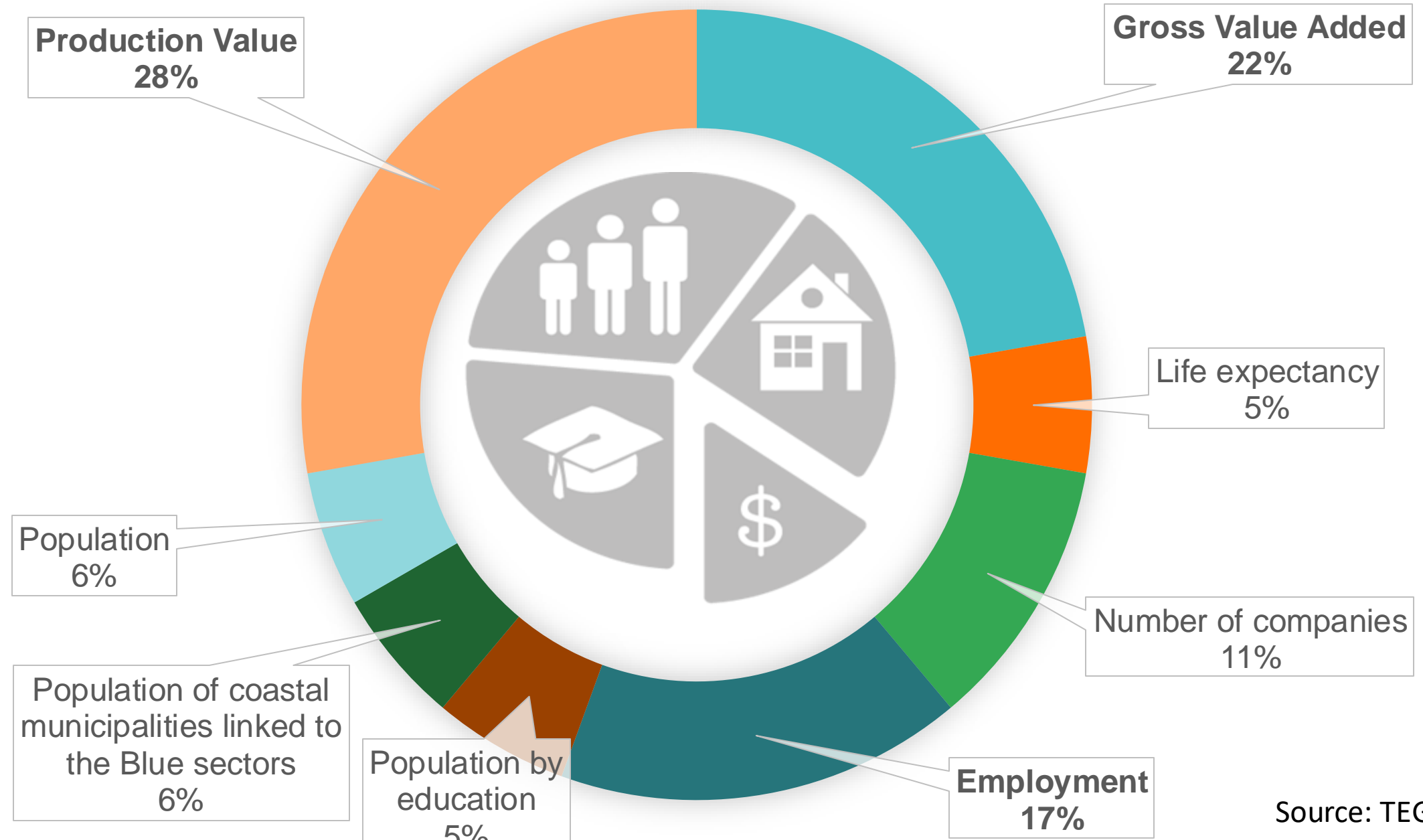


> 12 500 articles reviewed
75 suitable for analysis

1. Preparation			
Needs Authority	Financial support	Pre-planning	Stakeholder participation
16%		6%	9%
2. Elaboration			
Existing conditions	Future conditions	Spatial management plan	
37%	17%	4%	
3. Implementation			
Implementing	Monitoring	Adapting	
	10%	1%	

- Limited attention in the scientific literature.
- Focus on the short-term and descriptive analysis of economic (GVA and production value) and socioeconomic (employment).
- Methodological developments are scarce.

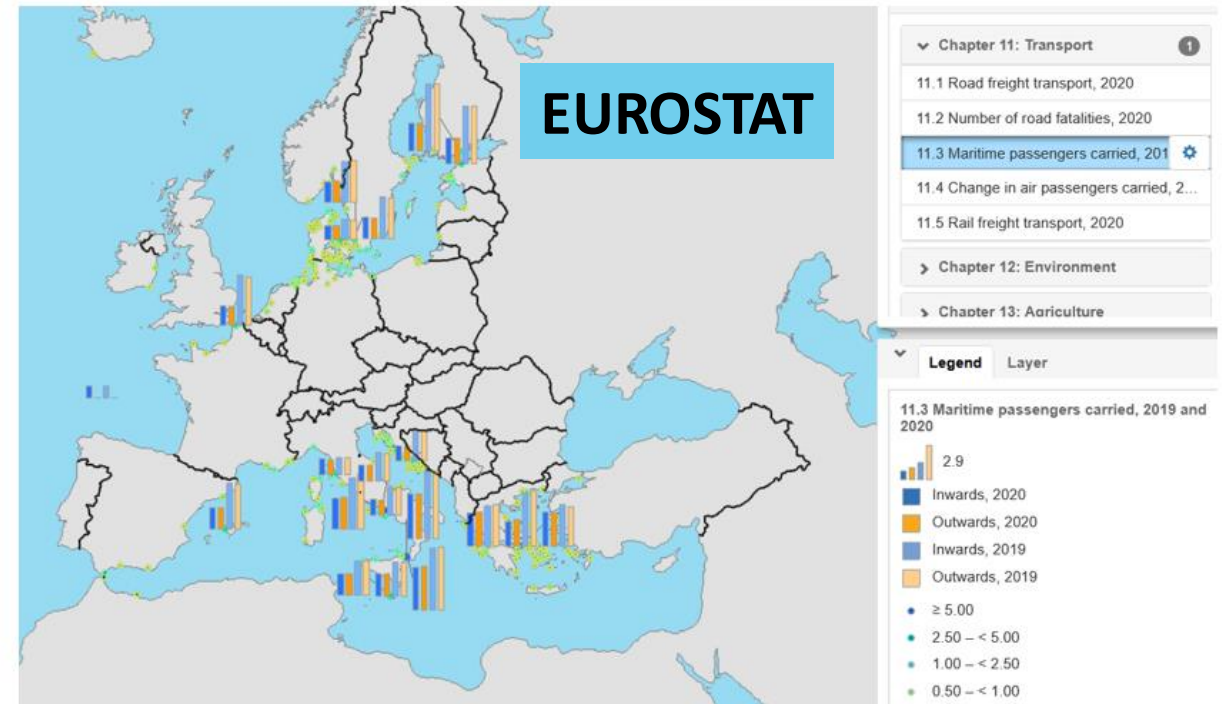
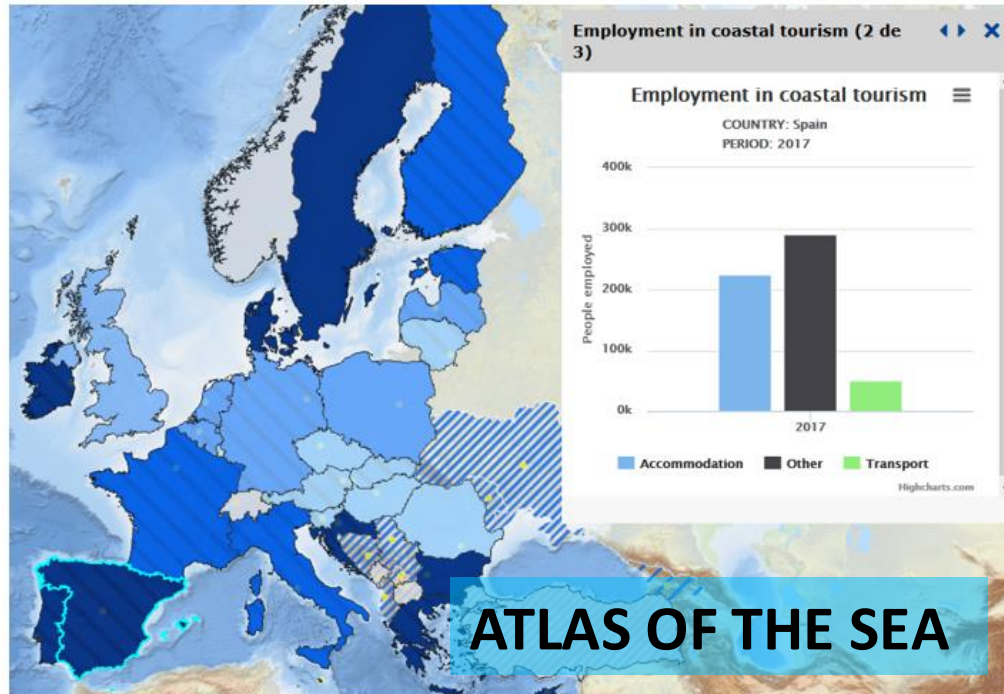
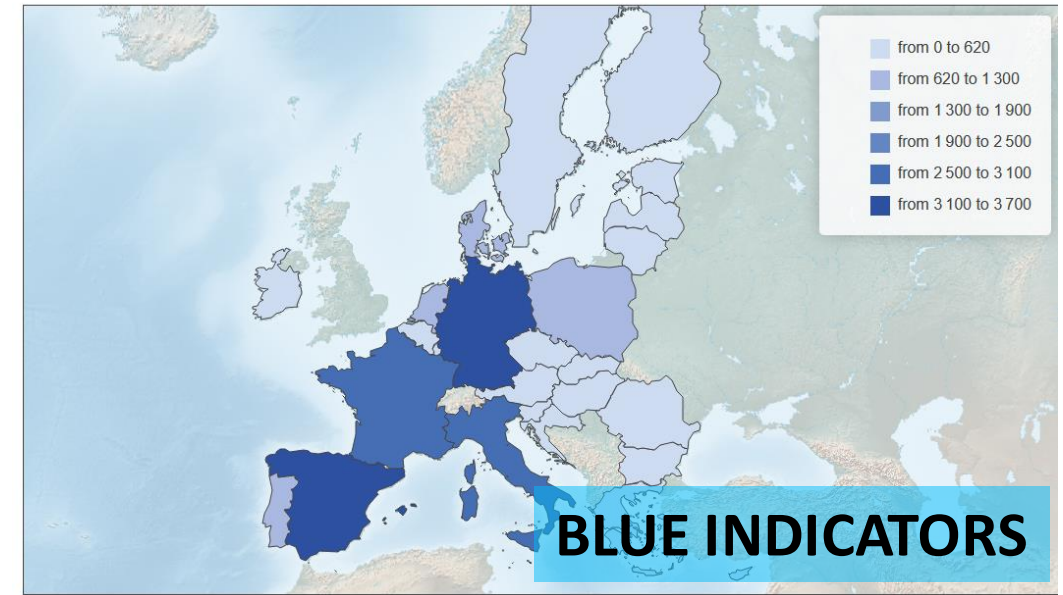
WHAT ARE THE SOCIOECONOMIC DATA AVAILABLE RELATED TO THE PLAN?



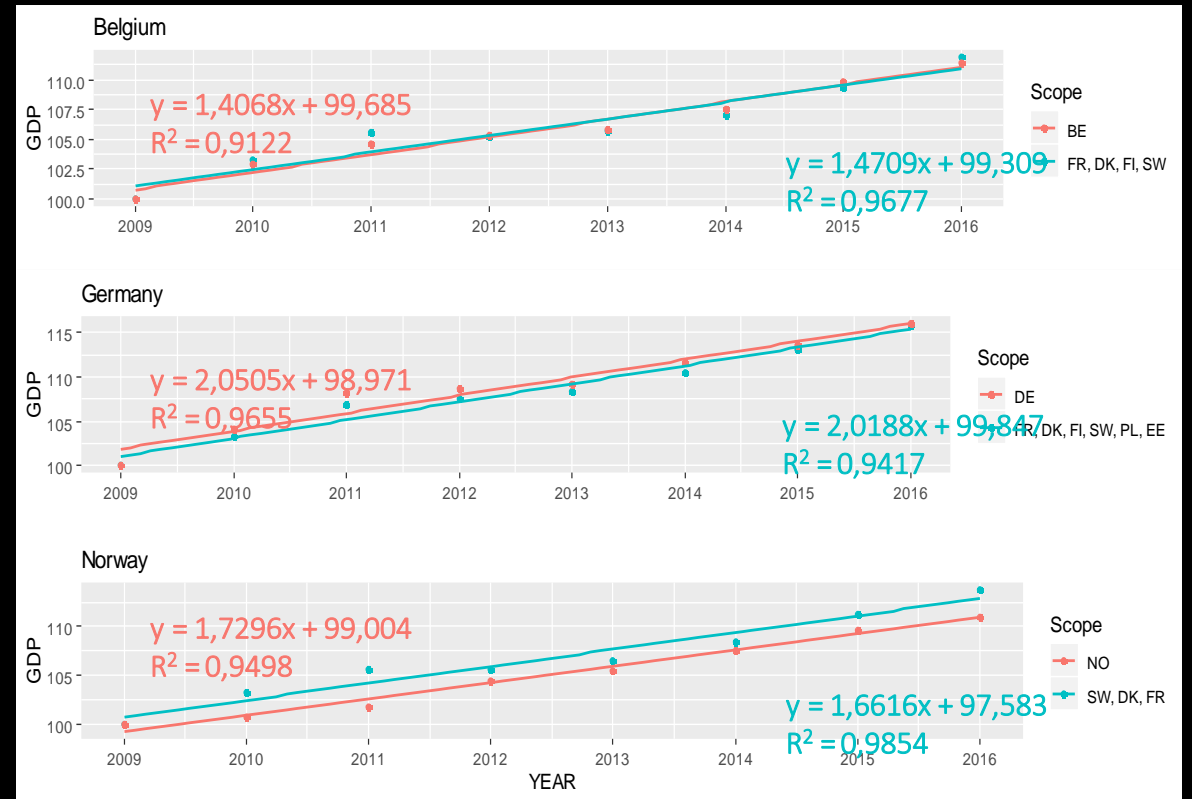
SOCIOECONOMIC DATA ARE NOT INCLUDED IN ANY VISUALIZATION TOOL



GVA of Marine Living Resources sector in 2019



1. Identification of sectors
2. Real evolution of marine activity production
3. Construction of the counterfactual scenarios
4. Estimations: initial direct impact
5. Stakeholder consultation: weighting up direct impact.
6. Estimation of direct, indirect and induced impact.



Stakeholders' perceptions of MSP's effect on production differences in marine activities with respect to other neighbouring economies.

NACE codes	Activity scenarios	Belgium			Germany			Norway		
		Low	Med.	High	Low	Med.	High	Low	Med.	High
A0311	Marine fishing	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
A0321	Marine aquaculture	0%	12.5%	25%						
G4638	Wholesale of other food, including fish, ...	0%	12.5%	25%						
C1020	Processing and preserving of fish..	0%	12.5%	25%				0%	12.5%	25%
B0610	Extraction of crude petroleum							0%	0%	0%
B0620	Extraction of natural gas							0%	0%	0%
B0910	Support activities for petroleum.							0%	0%	0%
B0811	Quarrying and building stone, limestone, ...	75%	87.5%	100%	50%	67.5%	75%			
B0812	Operation of gravel and sand pits.	75%	87.5%	100%	50%	67.5%	75%			
B0899	Other mining and quarrying				50%	67.5%	75%			
H5010	Sea and coastal passenger water transport				0%	12.5%	25%	0%	12.5%	25%
H5020	Sea and coastal freight water transport	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
H5229	Other transportation support activities	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
N7734	Rental services of water transport.	0%	12.5%	25%						
H5210	Warehousing and storage services	0%	12.5%	25%						
H5222	Service activities to water transportation	0%	12.5%	25%						
H49	Tourism: Land transport				0%	12.5%	25%	0%	12.5%	25%
H51	Tourism: Air transport				0%	12.5%	25%	0%	12.5%	25%
I55	Tourism: Accommodation	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
I56	Food and beverage service activities	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
N77	Tourism: recreational and sports goods							0%	12.5%	25%
N79	Tourism: Travel agency, ...	0%	12.5%	25%	0%	12.5%	25%	0%	12.5%	25%
R90-92	Tourism: Culture and entertainment							0%	12.5%	25%
D3511	Production of electricity	75%	87.5%	100%	25%	37.5%	50%			
F4291	Construction of water projects	0%	12.5%	25%						

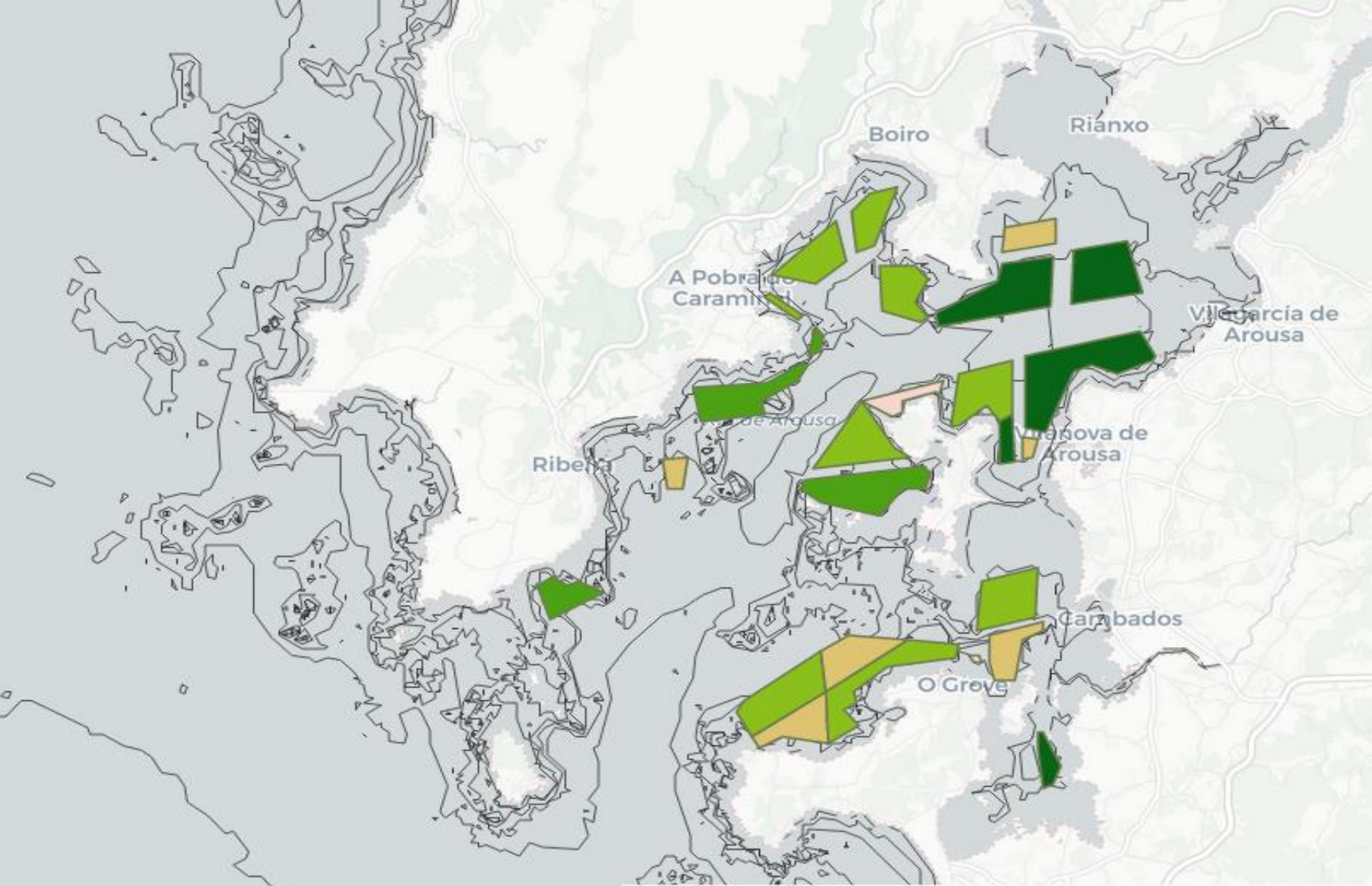
Delivering knowledge for action!



Guidelines for the integration of the Socioeconomic impact of MSP

Technical Expert Group on Data for MSP
(Socioeconomic Subgroup)





Capas

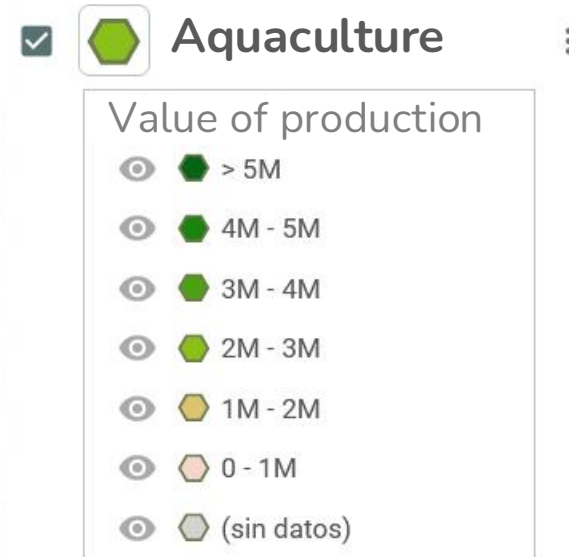
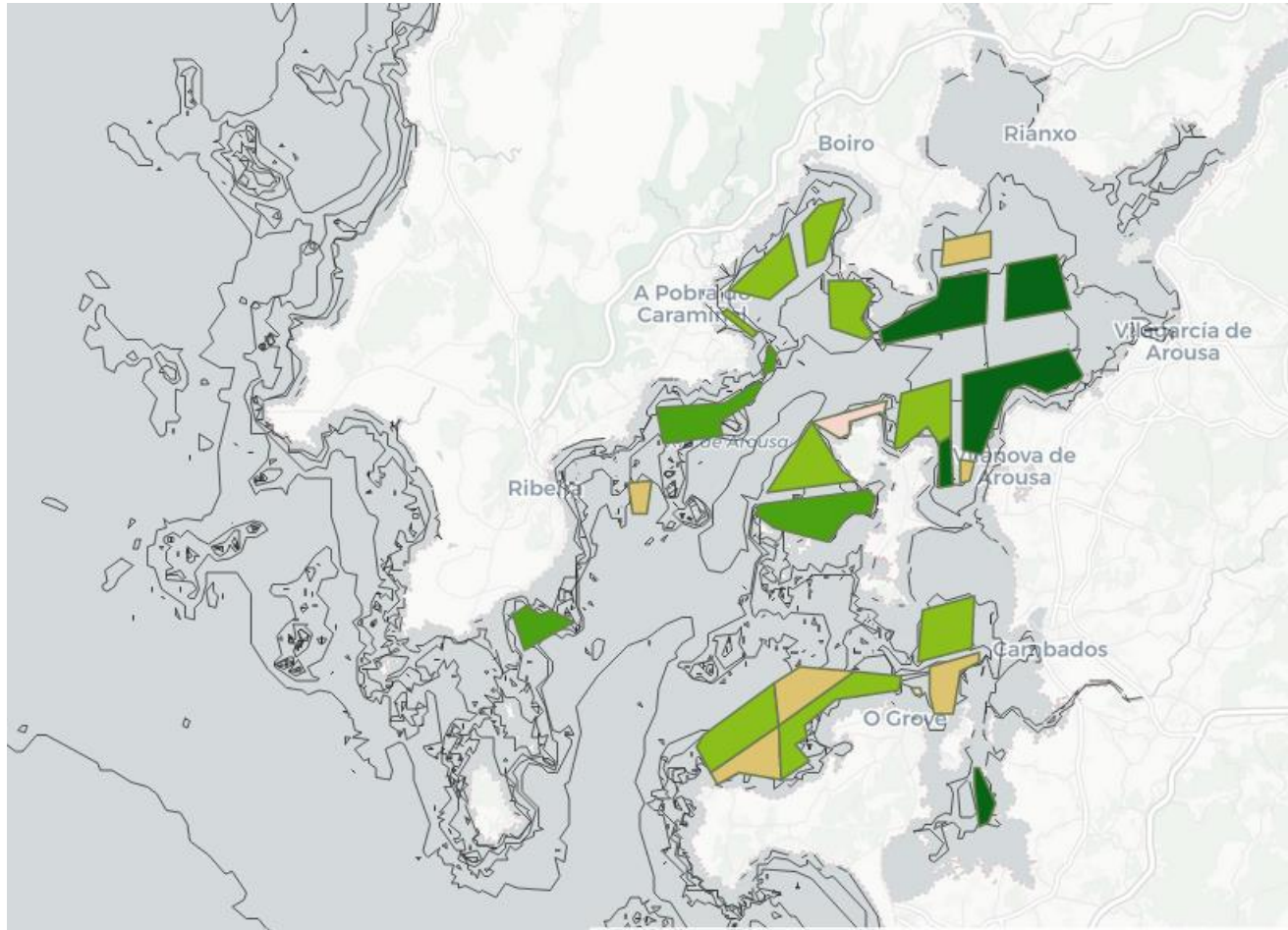
Usos do mar

-  **Acuicultura**
 - Valor medio*
 -  > 5M
 -  4M - 5M
 -  3M - 4M
 -  2M - 3M
 -  1M - 2M
 -  0 - 1M
 -  (sin datos)
-  **Marisqueo**
-  **POEM Demarcación**

- Value of production
- Gross Value Added
- Employment



Conceptual output



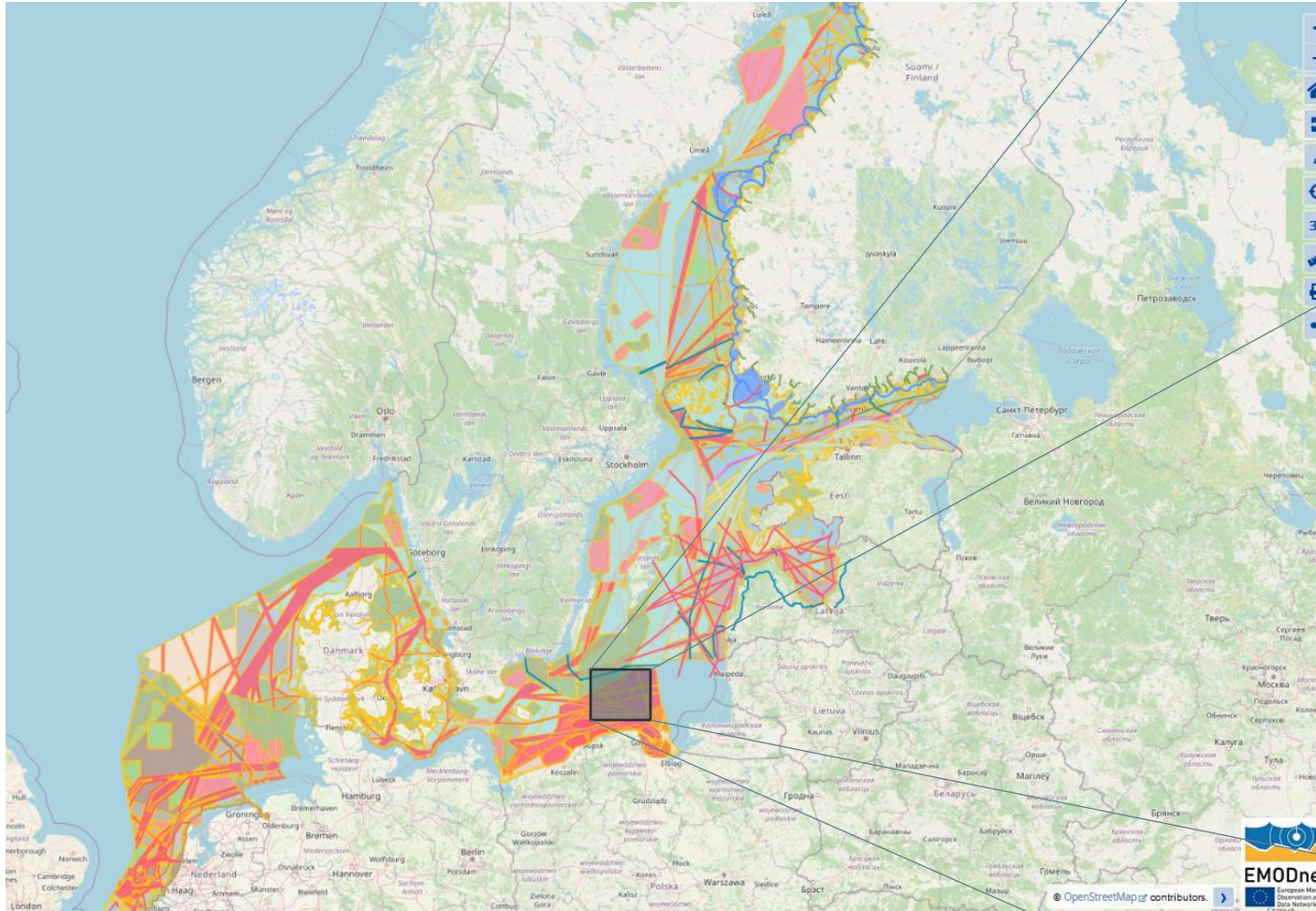
- Value of production
- Gross Value Added
- Employment

USING ECONOMIC & SOCIAL INFORMATION FOR DECISION MAKING

Priority areas



BLUE ECONOMY ↔ MSP



Group	Blue Activity	NACE code	Description
Marine living resources	Primary production	A 03.11	Marine fishing (production)
		A 03.21	Marine aquaculture (production)
	Processing of fish products	C 10.20	Processing and preserving of fish, crustaceans and molluscs
		C 10.41	Manufacture of oils and fats
		C 10.84	Manufacture of condiments and seasonings
		C 10.85	Manufacture of prepared meals and dishes
		C 10.89	Manufacture of other food products n.e.c.
Distribution of fish products	G 46.38	Wholesale of other food, including fish, crustaceans and molluscs	
	G 47.23	Retail sale of fish, crustaceans and molluscs in specialised stores	
	G 47.11	Retail sale in non-specialised stores with food, beverages or tobacco predominating	
Marine non-living resources	Oil and gas	B 06.10	Extraction of crude petroleum
		B 06.20	Extraction of natural gas
		B 09.10	Support activities for petroleum and natural gas extraction
	Other minerals	C 19.20	Manufacture of refined petroleum products
		H 49.50	Transport via pipeline
		B 08.11	Quarrying of ornamental and building stone, limestone, gypsum, chalk and slate
		B 08.12	Operation of gravel and sand pits; mining of clays and kaolin
		B 08.99	Other mining and quarrying n.e.c.
		B 09.90	Support activities for other mining and quarrying
		B 08.93	Extraction of salt
B 07.10	Mining of iron ores		
B 07.21	Mining of uranium and thorium ores		
B 07.29	Mining of other non-ferrous metal ores		
Marine renewable energy	Offshore wind energy	D 35.11	Production of electricity
		D 35.12	Transmission of electricity
		F 42.22	Construction of utility projects for electricity and telecommunications
		F 43.21	Electrical installation
		J 61.10	Wired telecommunications activities
Port activities	Cargo and warehousing	H 52.24	Cargo handling
		H 52.10	Warehousing and storage
		H 52.22	Service activities incidental to water transportation
Shipbuilding and repair	Port and water projects	F 42.91	Construction of water projects
		C 30.10	Building of ships and floating structures
	Shipbuilding	C 30.11	Building of ships and floating structures
		C 30.12	Building of pleasure and sporting boats
		C 33.15	Repair and maintenance of ships and boats
	Equipment and machinery	E 38.31	Dismantling of wrecks
		C 13.92	Manufacture of made-up textile articles, except apparel
		C 13.94	Manufacture of cordage, rope, twine and netting
		C 26.51	Manufacture of instruments and appliances for measuring, testing and navigation
		C 28.11	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
C 25.99		Manufacture of other fabricated metal products	
C 32.30		Manufacture of sports goods	
H 50.10		Sea and coastal passenger water transport	
Maritime transport	Passenger transport	H 50.30	Inland passenger water transport
		H 50.20	Sea and coastal freight water transport
	Freight transport	H 50.40	Inland freight water transport
		N 77.34	Renting and leasing of water transport equipment
	Services for transport	H 52.24	Cargo handling
		H 52.29	Other transportation support activities
		K 65.12	Non-life insurance
Coastal tourism	Accommodation	I 55.10	Hotels and similar accommodation
		I 55.20	Holiday and other short-stay accommodation
		I 55.30	Camping grounds, recreational vehicle parks and trailer parks
		I 55.90	Other accommodation
	Transport	G 47.30	Retail sale of automotive fuel in specialised stores
		H 49.10	Passenger rail transport, interurban
		H 49.31	Urban and suburban passenger land transport
		H 51.10	Passenger air transport
		G 47.60	Retail sale of cultural and recreation goods in specialised stores
	Other expenditure	G 47.70	Retail sale of other goods in specialised stores
I 56.00		Food and beverage service activities	
Public activities	Public activities	E 38.12	Collection of hazardous waste
		E 84.11	General public administration activities
		E 84.22	Defence activities
		E 84.24	Public order and safety activities
		E 84.26	
Research and education	Research and education	M 72.11	Research and experimental development on biotechnology
		M 72.19	Other research and experimental development on natural sciences and engineering
		M 74.90	Other professional, scientific and technical activities n.e.c.
Water treatment	Water treatment	E 36.00	Water collection, treatment and supply
		E 39.00	Remediation activities and other waste management services



Social

Basic variables:

Employment, salary, gender



Maritime Spatial Planning Data Framework (MSPdF)

How to structure input data for MSP process, monitoring & evaluation

Governance



Coordination

Participation



- Practical applications relevant for practitioners, researchers and managers
- **Technical Expert Group-SE subgroup:**
 - If you are willing to engage in the discussion
 - If you are searching for specific information
 - If you wish to share your experience in integrating the socioeconomic dimension

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marta.ballesteros@ieo.csic.es

