

Catalogue and overview of MSP-relevant data

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Catalogue and overview of MSP-relevant data

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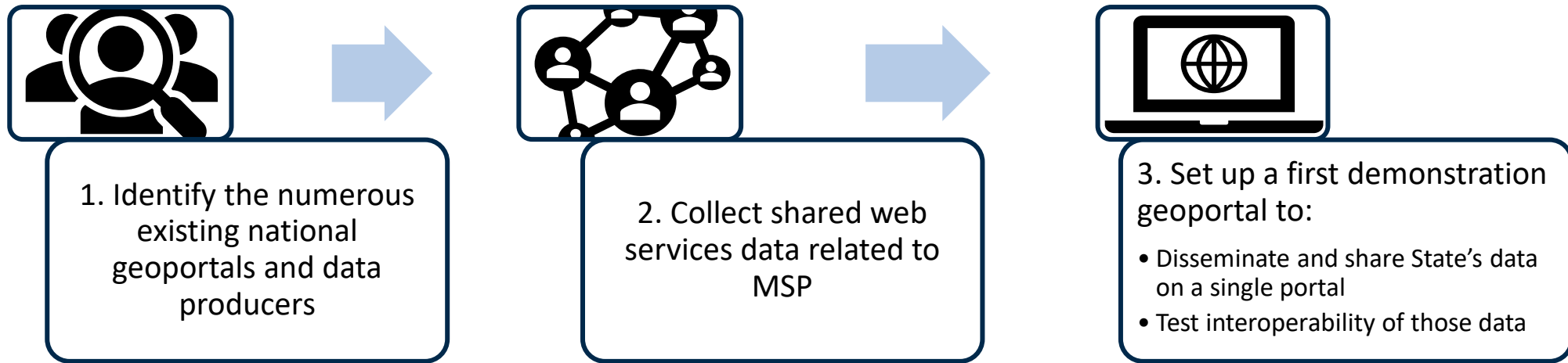


1. BACKGROUND INFORMATION

Since 2016, previous transnational EU co-funded MSP projects (SIMCelt, SIMNORAT, SIMWESTMED and SEANSE) have advanced these issues:

- ✓ Acknowledged methods for sharing of spatial data was very varied between countries, presenting barriers to interoperability
- ✓ Proposed ways to improve information sharing
- ✓ Identified the need for a Europe-wide tool
- ✓ Recommended the use of a centralised data portal dedicated to MSP geographic information

In practice, previous projects outputs were



Data and information are fundamental for implementing maritime spatial planning (MSP), including for cross-border cooperation

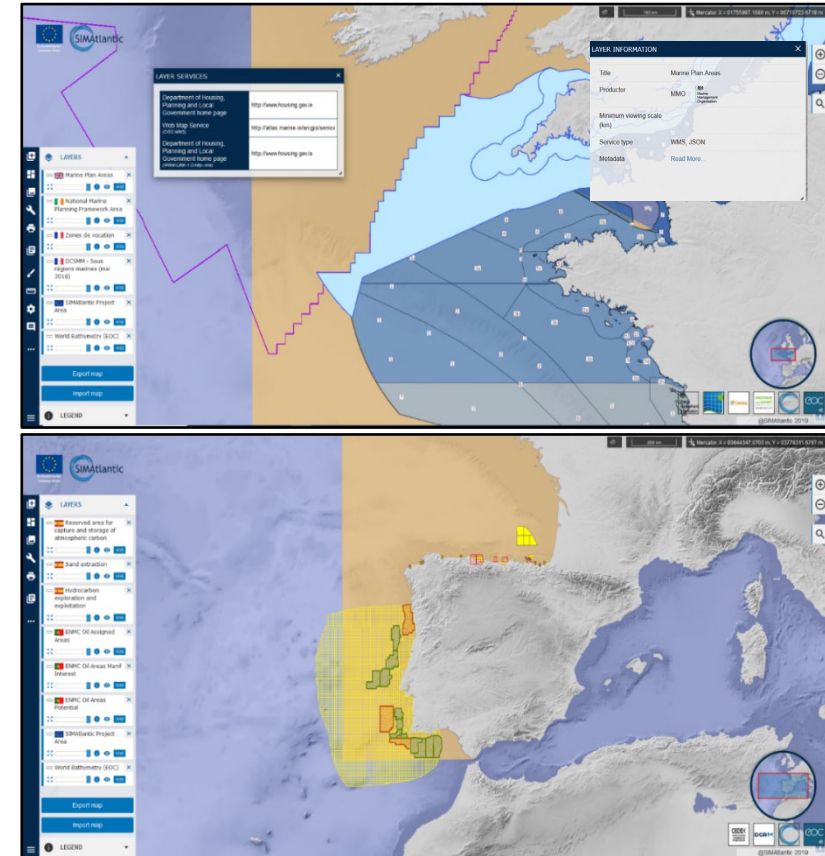
2. OBJECTIVES AND CHALLENGES

General objectives on data

- ✓ To improve data and MSP plans use and sharing
- ✓ To understand how European Atlantic countries produce and disseminate MSP data
- ✓ To define stakeholders needs regarding spatial data and services to facilitate cooperation for cross-border MSP issues

Challenges

- ✓ To strengthen knowledge and understanding of the States' respective data management and maritime planning process
- ✓ To gather official data used to establish the MSP, dealing with national and/or transboundary issues
- ✓ To facilitate their access and use by centralising them on a [data portal](https://simatlantic.mspdata.eu/)




Geoportal map viewer
<https://simatlantic.mspdata.eu/>

3. PROJECT OUTPUTS

Different complementary tools and documents were produced on data

1. Survey report providing findings on **data organization in the project countries and needs**
2. "Country factsheets" to provide general information on national MSP and geoportals
3. Summary table comparing access means to national plans
4. Demonstration data portal to centralise and access to geographical data collected from relevant national sources
5. Analysis of the French MSP plans limits to consolidate the limits of the vocational areas
6. A catalogue of Resource for data use and sharing, providing access to all the above:
<https://services.mspdata.eu/home/en/simatlantic>



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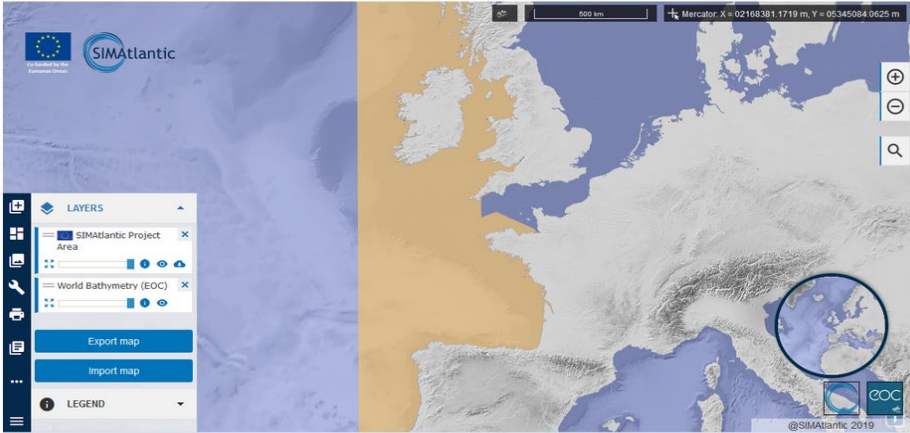
Data use and sharing for maritime policies

HOME
PROJECTS
DATA ARCHITECTURE
METADATA CATALOGUE

SIMAtlantic

Duration : 07/2019 - 07/2021

Supporting Implementation of Maritime Spatial Planning in the Atlantic (SIMAtlantic) aims to support the establishment and implementation of Maritime Spatial Planning (MSP) in France, Ireland, Portugal, Spain and the United Kingdom. It is co-funded by the European Union and implemented by partners representing academic institutions, marine planning authorities and scientific public bodies, who work together to share knowledge and ultimately build long-lasting cooperation in MSP. The project includes a data portal as a demonstrator, accessible at <https://simatlantic.mspdata.eu/>



This **demonstrator** gathers data and information in connection with the planning of maritime areas. It disseminates in particular geospatial information relating to the marine spatial plans of England, Spain, France, Ireland, Northern Ireland and Portugal and "proof" data used to establish the plans, when available and interoperable with the too used.

MSP plans access
31st of March 2021 is the deadline fixed by the European Directive on maritime spatial planning for European countries to establish maritime spatial plans concerning their waters.

The table below informs on the status of the MSP national plans availability on 20/11/2020.

Table	National Maritime Spatial Plans - textual document				Availability or envisaged geospatial layers of spatial plans				Access to geospatial layers of spatial plans				SIMAtlantic portal	
	Progress status	Languages available	Formats available	Georeferenced or forecast of spatial plans	Georeferenced planning or delimitation of maritime areas/regions	Type of subdivisions	Dissemination on a dedicated national MSP geoportal	URL	Downloadable available	Web services format available	Type of web data server used	Metadata received available		Metadata dissemination services on format
France	2019: Adoption des stratégies de façade maritime (Stratégie de façade maritime) 2019-2021: Elaboration des plans de gestion et de planification de la zone côtière (PGZC)	Country language Summary available in english	pdf	available	4 for the mainland (Documents for delimitation of maritime areas)	30 coastal areas on the Atlantic sea basin (orange zones)	Yes	http://www.mer.marsiparis.fr/	Yes	VMS & VPS	Mapserver	Yes	CSV, HTML & VMS (ISO 19115)	Yes
Ireland	Consultation of the published 2018 Final version expected in 2020	Country language (Irish, English)	pdf	partially available	1) The National Marine Planning Framework (NMPF) Final 2) Marine plan areas	Strategic Marine Action Zones, not yet defined	Yes (to be finished alongside the plan in 2021)	Marine Atlas http://marinemap.ie/	No	VMS ArcGIS REST	Arcgis server	Yes	CSV (ISO 19115)	Yes
UK (Northern Ireland)	Assessment of proposed consultation. A draft marine plan has published for consultation in 2019 and is, as such, a material consideration in development.	Country language	pdf	available	2 (Marine plan areas, inland regions under the Marine Act and Outer Harbour regions under the MCAUA)	Spatial distribution of uses and activities	Yes	Northern Ireland Marine Map Viewer http://mapviewer.mer.marsiparis.fr/	No	ArcGIS REST (but no VMS)	Arcgis server	Partially	HTML of ArcGIS REST service	No (interoperable with Geonetwork)
UK (England and Wales)	There are 1 regional marine plans adopted (East Marine Plan and South Marine Plan) and 8 in development (North East Marine Plan, North West Marine Plan, South East Marine Plan, and South West Marine Plan). The East Marine Plan has been approved since 2019 and is due to be amended in 2021.	Country language	pdf summaries are available on request	available	11 (Marine plan areas)	Yes	Marine Planning Evidence http://marineplanningevidence.gov.uk/	Yes (pdf only)	ArcGIS REST (with VMS) VMS	Arcgis server	Yes	HTML & VMS (ISO 19115) HTML of ArcGIS REST service	Yes	
Spain	Draft documents of the plan submitted for public consultation in the process of the Strategic Environmental Assessment (SEA)	Country language	pdf	partially available	5 (Urban marine areas)	Current uses, not yet defined	Expected for 2021	?	Yes	VMS	OGC-VMS Server	Yes	CSV (ISO 19115)	Yes



3. PROJECTS OUTPUTS

The screenshot shows a web application interface for a data catalogue. On the left, there is a 'LAYERS' panel with 'SIMAtlantic Project Area' and 'World Bathymetry (EOC)'. The main area is the 'DATA CATALOGUE' with a search bar, language selection (EN, FR, PT, ES), and a list of 'BOUNDARIES' categorized by 'PROJECT AREA', 'TERRESTRIAL BOUNDARIES', and 'MARITIME BOUNDARIES'. The 'MARITIME BOUNDARIES' section is expanded to show 'FRANCE', 'IRELAND', and 'PORTUGAL'. Under 'FRANCE', there are items like 'Base reta continente', 'Base normal continente', 'Limite mar territorial continente', 'Limite zona contigua continente', and 'Limite ZEE continente'. Under 'SPAIN', there are items like 'Straight baseline', 'Territorial sea', 'Continental shelf', and 'Exclusive Economic Zone of the Mediterranean'. A map on the right shows the Atlantic Ocean with a red box highlighting the project area. Callout boxes point to various features: 'Data catalogue', 'Map catalogue', 'Access to general information', 'Metadata catalogue access', 'Interface translation EN/FR', 'Access to web services available', 'Import external web services', 'Advanced search - filters by country, category, keywords, INSPIRE Theme', 'Translation of layer titles', 'Data organisation by category and country', 'Flag indicating data origin', and 'Display of producers' logos'.

- ✓ Features focusing on cross-border issues allows to
 - Access and view the data
 - Identify the source and general information
 - Understand and reuse the data

4. FINDINGS

Main information regarding European Atlantic countries (from survey results)

Specificities related to cross-border cooperation

Improving the sharing and use of data is a necessity
Majority of organisations are involved in steps or actions on data harmonisation with their neighbours.

Consensus on the need to share data on

- Pressures and impacts
- Maritime boundaries
- Physical characteristics

Major constraint to data sharing is **data ownership**

To ensure consistency, the **OGC standards are recommended**

Efforts to facilitate cross-border cooperation:

- Establish common methods, guidelines and tools for sharing data
- Strengthen communication exchange

National geoportal dedicated to MSP

All countries have or are planning a **geoportal to communicate MSP plans**
Most have developed a geoportal **to provide raw data**

Some geoportals are multi-purpose and therefore not only dedicated to MSP

For most, content is only available in the **national language**

Access to geoportal is public but there may be different levels of access to data : fully accessible, partially accessible or viewable only

Translation of data and metadata **is relevant** to facilitate sharing and improve their understanding but seems **too complex**

Few geoportals are accompanied by a **metadata catalogue** and if it exist it might not always be interoperable or exhaustive

4. FINDINGS

European geoportal

Establishment of a Europe-wide geoportal is seen as **a valuable tool** for collaboration in cross-border areas

It should display

- The boundaries of the plans
- Their zonings and management policies

Main challenge is the identification of reference data

Specific features expected

- Based on harvesting
- Quick access to metadata
- Access to web services
- Access to translation

Issues

- Access to metadata
- Development of a data centralisation system
- Management and control of updates
- Agreeing spatial coverage and resolution

Drawing up plans

The number of plans varies greatly from one state to another (from 1 to 11)

Different approaches to define the planning units of the national plans

- Strategic objectives
- Distribution of activities and uses (current, future or potential)

Plans language(s)

- English
- Country language if different

Plans dissemination

- National plans and raw data are mostly available **in geo-referenced formats and online**
- Variable compliance with shared standards strongly **limits their interoperability**

Methods for updating raw data

- Continuous updating according to the producer deliveries
- Consumption of producers web services
- Organisation of data collection

5. CONCLUSIONS

- ✓ **Data sharing is a major leverage** to consider cross-border challenges in the process MSP planning
- ✓ Real willingness to share data but **diversity of situations and architectures** : difficult to share information
- ✓ A lot of **scattered information**: need to be gathered and centralised to facilitate its access
- ✓ Work realised during SIMAtlantic project provides **comparative analysis and elements of understanding on the organisation of data and MSP process** and contributes to build the Atlantic vision
- ✓ **Efforts to be continued to remove barriers** to both the production and dissemination of raw data and MSP plans



THANK YOU !

