

# Data and Information Requirements for MSP

## Lessons Learnt

# SIMNORAT DATA STUDY

## Context

- **INSPIRE is a standard for Data Exchange at an European Scale**
  - Focus on Web Services
  - Metadata association with data is a requirement
- **Focus on data relevant for MSP**
  - Classification based on the MSP Data Study Executive Summary, 2016<sup>1</sup>
  - MSP Themes: Administrative boundaries, Physical / Chemical / Biological Information, Spatial policy, Socio-economic data, Human Activities

## Principles

- Building up a **catalogue** of data in the project area
- Implementation of an **INSPIRE compliant Spatial Data Infrastructure** to **test interoperability** of data
- Implement **actions** to address the gaps identified in the inventory

<sup>1</sup>MSP Data Study Executive Summary. Technical Study under the Assistance Mechanism for the Implementation of Maritime Spatial Planning, 2016  
(<https://bookshop.europa.eu/en/msp-data-study-pbEA0117258/>)

# DATA ORGANISATION

## Portugal:

- **Many data useful for the MSP centralised** in PSOEM Geoportal (Plano de Situação do Ordenamento do Espaço Marítimo)

## France :

- **Multi-Source** data from at a national and sub-national scale
- **Organisation on progress** through GIMEL Working group and « Système d'Information Milieu Marin »

## Spain :

- **Many sources available at a local scale**
- **A few data available as Web Service and not always associated with Metadata**
- **IEO and CEDEX have gathered and published dataset as Web Services.** They have also created **Metadata** for the project.

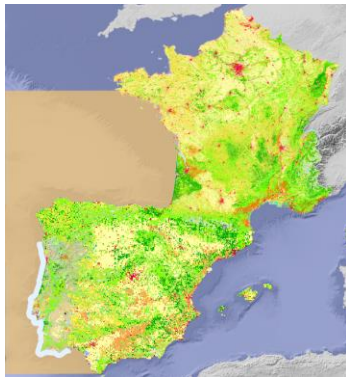
# DATA COMPARISON

## Challenges

- Gaps on symbology, definition, geometry, contents,
- A few dataset standardised at an international scale

## Solutions

- Production of standardised data (e.g. Corine Land Cover)
- Produce data at an International scale
- Data Harmonisation during the process of publication (EMODnet portal)



Corine Land  
Cover- National  
sources

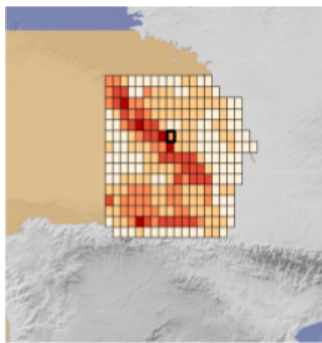


EMODnet  
Human  
Activities

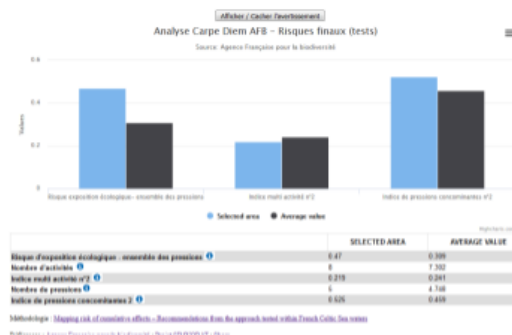
# DATA COMPARISON

## Actions undertaken during the project

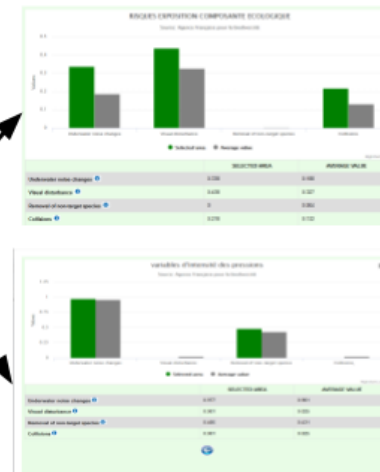
- Fulfil the INSPIRE requirements to harmonise data (e.g French maritime boundaries)
- Enhance dataset understanding by the use of Web Technology  
e.g. *Carpe Diem Cumulative Impacts Assessment Method*



Map displaying the value of the final indicator



Final indicators of the selected area compared with average indicator



Sub-Indicators explaining the main indicator

# LANGUAGE

## Challenges

- Hard to identify and understand Data and Metadata in a foreign language

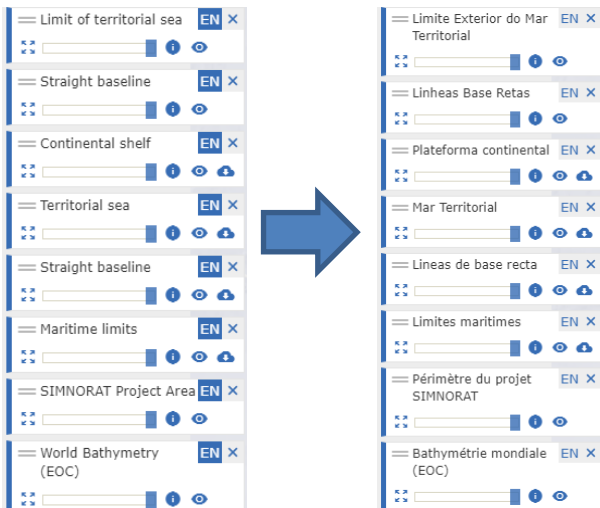
## Solutions

- Production of Data and Metadata in multiple languages
- Data and Metadata translation during the process of publication
- Layers name translation on data portals

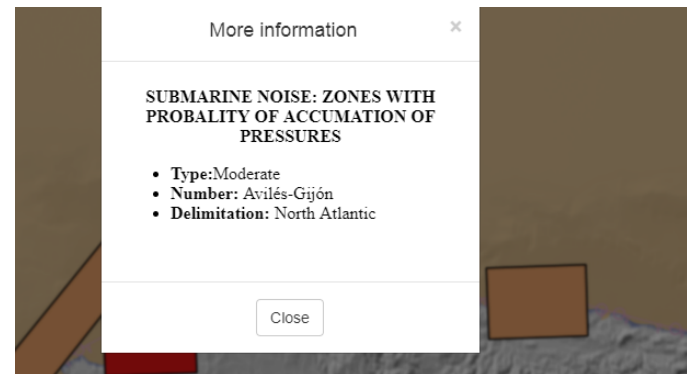
# LANGUAGE

## Actions undertaken during the project

- Producers publish metadata in native language and in English : *IEO Habitats - Distribution zone in Noratlantic Demarcation (IEO) / Accumulation of pressures that generate submarine noise in the North Atlantic Marine Suidivision (CEDEX)*
- Using Web format to translate dataset during the process of publication : Submarine Noise: Zones with probability of accumulation of pressures (IEO)
- Set a layer name translation functionality on the data portal



Translation of layer names in SIMNORAT portal



Attributes and occurrence translation

# TECHNICAL INTEROPERABILITY GAP

## Challenges

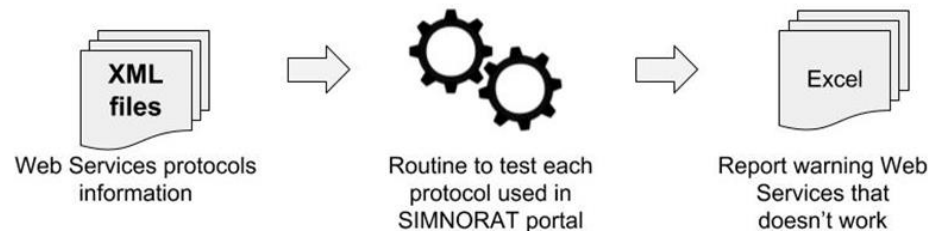
- **INSPIRE compliance does not guarantee interoperability**
  - exhaustivity of data
  - Interoperability gap between software
  - Stability of Web Services
- **Existing Web Services protocols are not all INSPIRE compliant**

## Solutions

- **Improve interoperability of softwares and Web Services protocols**

## Actions undertaken during the project

- Building up routines to **Manage Web Service instability**





# PERSPECTIVES

## Still remaining work to improve the improve the sharing of MSP data in a transboundary Context

- Identify fundamental data to take into account transboundary issues
- Identify and design the organisation of data sharing at a National, European, International level
- Use comparable data
- Improve interoperability between data and Softwares

thank you | merci | gracias | obrigado