



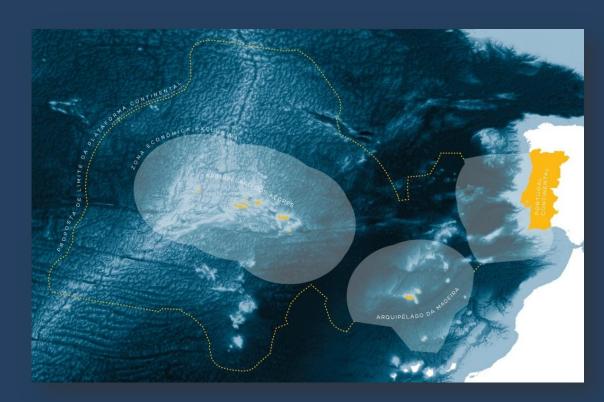
Portuguese Task Group for the Extension of the Continental Shelf (EMEPC)

Teresa Rafael

November 13th 2017 DGRM

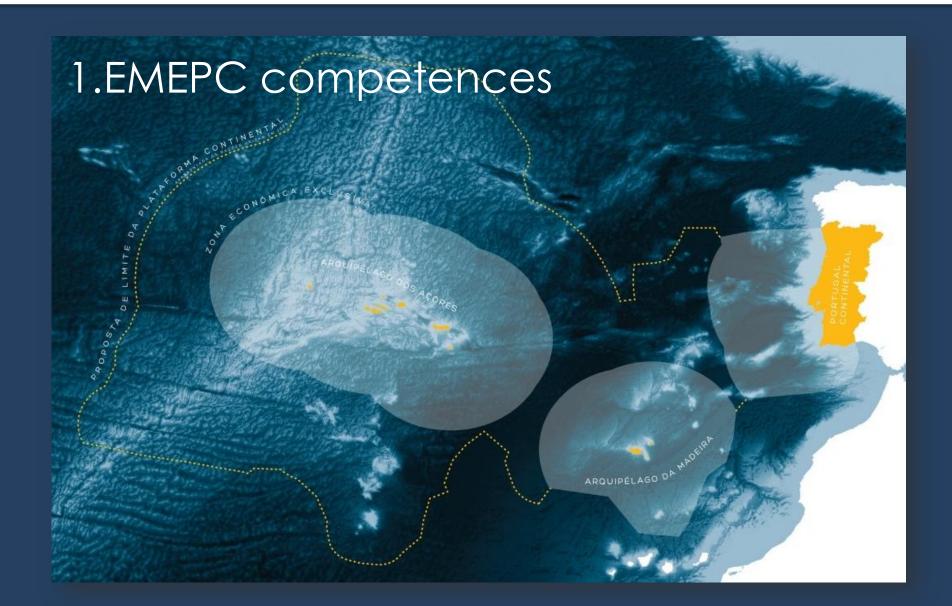


- 1. EMEPC competences
- 2. Initial Assessment Report Extended continental shelf
- 3. SNIMar project













2005

EMEPC was created to prepare and deliver the extended continental shelf submission to the UN and to interact with CLCS, during its consideration



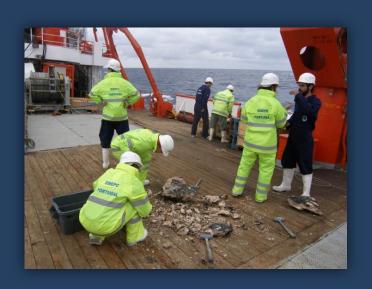
the knowledge on the morphology and the geological and hydrographic characteristics of the seabed in order to collect data and information to present the Portuguese submission to the Commission of Limits of the Continental Shelf (CLCS)



What is the continental shelf?

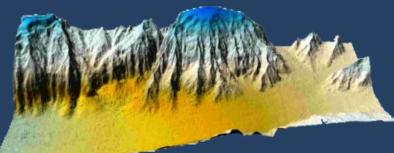
Art.76°

The continental shelf comprises the sea-bed and subsoil of the submarine areas that extend beyond its territorial sea throughout the natural prolongation of its land territory to the outer edge of the continental margin ...













From 2005 to 2009

Acquire technical and scientific data to establish the outer limit of the continental shelf contained in the Portuguese submission;

Start to develop complementary projects:



- M@rBis project marine biodiversity georeferenced information system
- Informar project database structure with the collect information from scientific cruises
- Kit do mar project non-formal educational project for the young generation



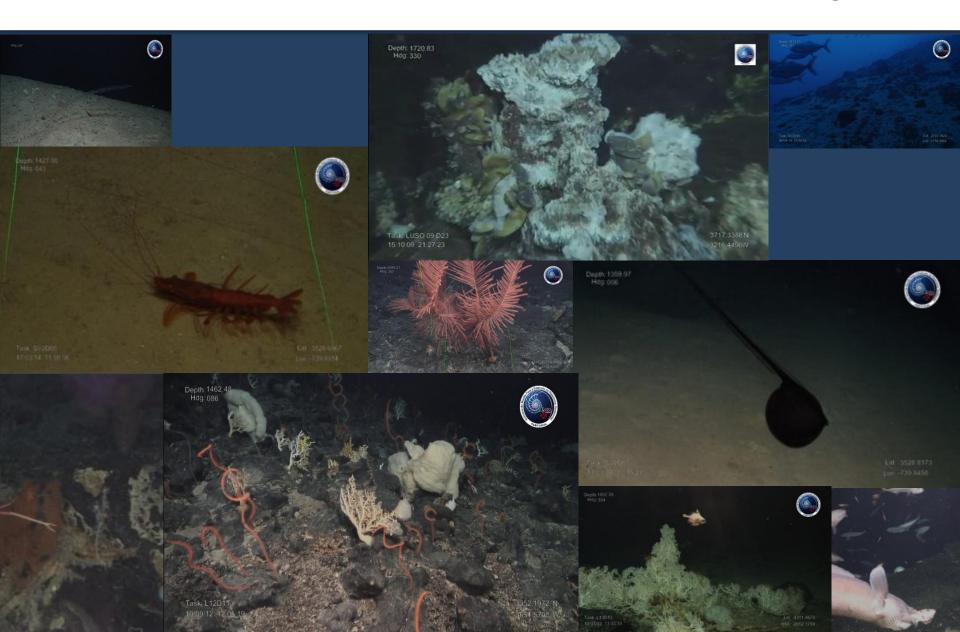










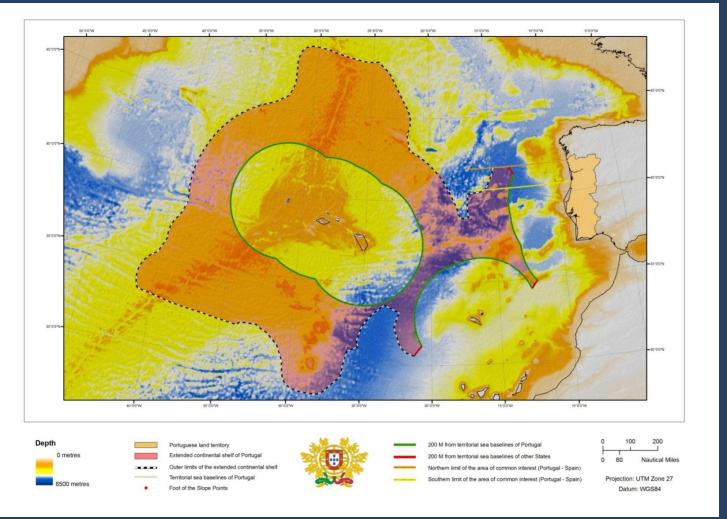






May 11th 2009

Portuguese submission concerning the outer limit of the continental shelf beyond 200 nautical miles







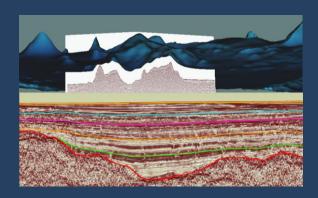


From 2009 – 2016

- Continue to acquire technical and scientific data to defend and strengthen the establishment of the outer limit of the continental shelf contained in the Portuguese submission
- Continue to develop and coordinate several complementary projects: M@rBis, Kit do Mar and SNIMar

Develop of the national capacity for the intervention in

the deep sea

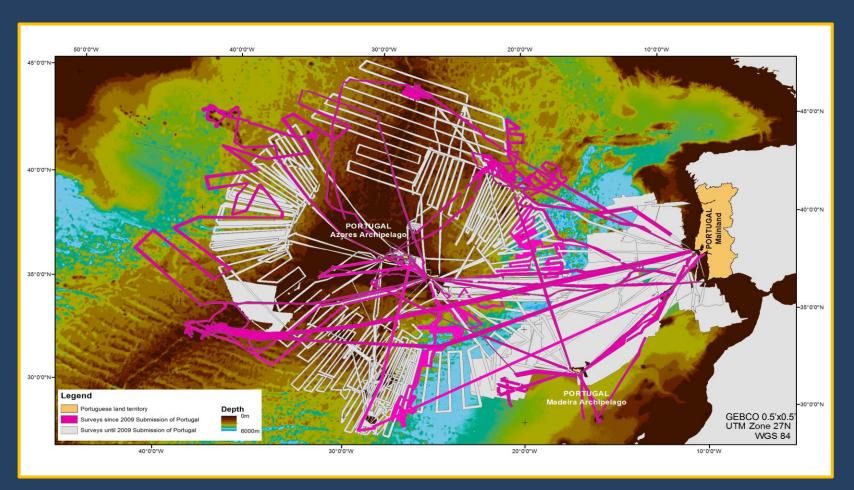




Present and future

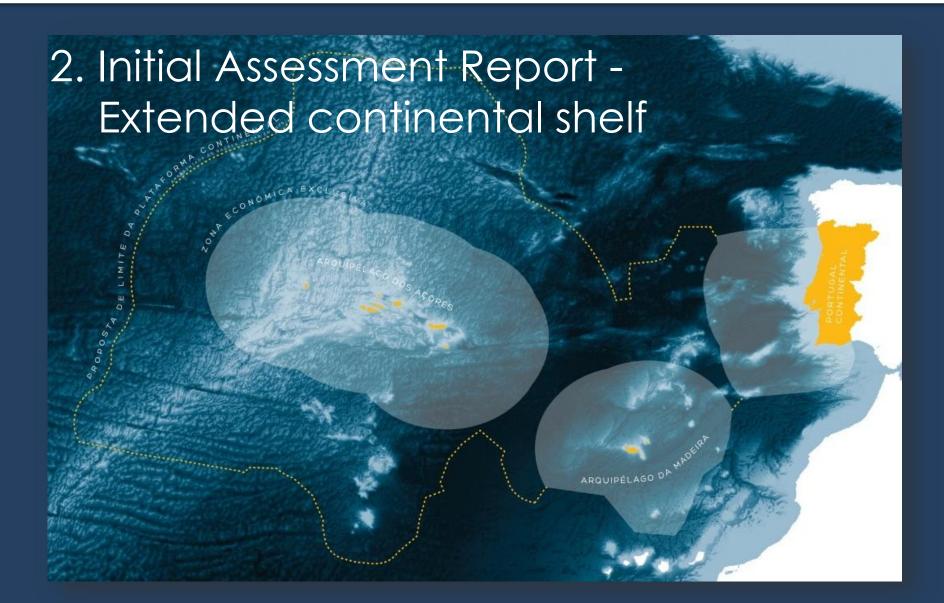
2017-2019

August 2017 - An addendum was submitted to CLCS











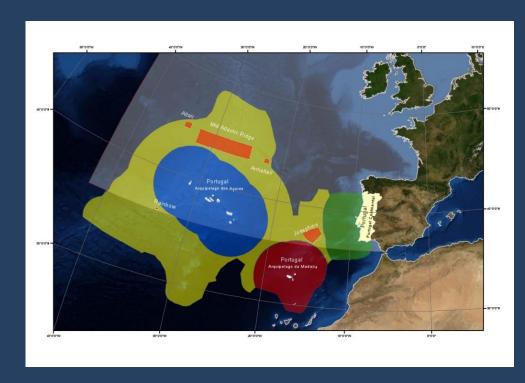
Marine Strategies

Sub-region level:

- » Bay of Biscay and the Iberian Coast
- » Macaronesian biogeographic region



- » Continental sub-division
- » Madeira sub-division
- » Açores sub-division
- Extended continental shelf subdivision





Main characteristics:

	Extended continental shelf	Other sub-divisions
Area	2.150.000Km2	Continental: 303.971Km2 Madeira: 453.082 Km2 Azores: 954.350 Km2
Maritime Zones	Soil and subsoil	Soil, subsoil and water
Knowledge	Low scientific knowledge	Some scientific knowledge
Pressures	Areas almost without human presence	Areas with human impacts
Potencial	High potencial in nature conservation and preservation specialy in MPA	High potencial in nature conservation and preservation specialy in MPA



The approach:

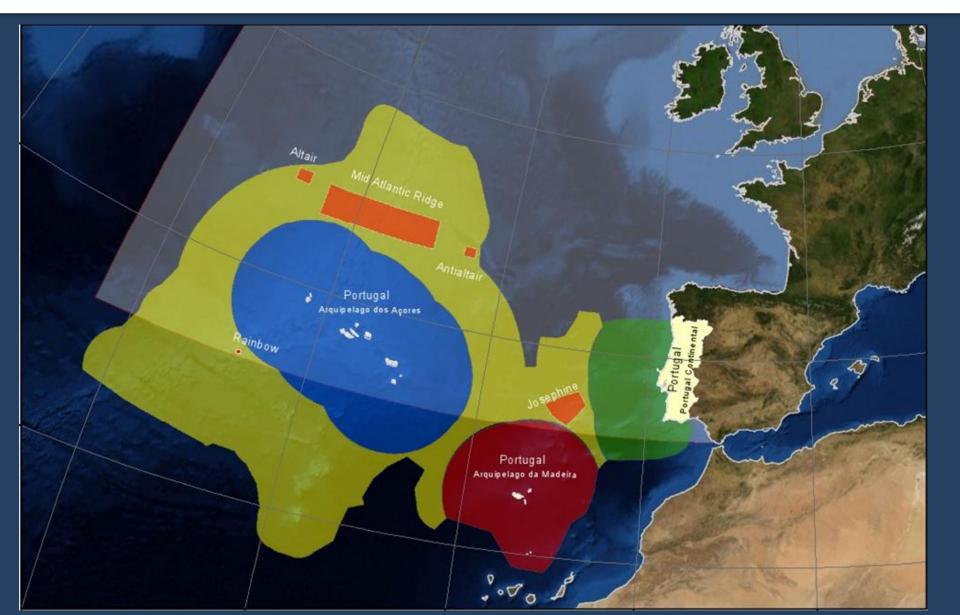
Some considerations:

- Potencial in nature conservation and preservation encourage research contributing to biodiversity conservation and sustainable use and to designate new MPAs
- Rainbow hydrothermal vent field first MPA designated in Extension of Continental Shelf area under the OSPAR Convention
- Evaluation areas = MPAs under OSPAR Covention



First Member State to consider this area under MSFD







Determination of good environmental status (art.9°)

D1, D3, D4, D8, D9 – without enough scientific information

D2, D5, D6, D7, D10, D11

Evaluation areas	Environmental status	Confidence degree
Josephine	Good environmental status achieved	Low
Rainbow	Good environmental status achieved	Low
Altair	Good environmental status achieved	Low
MARNA	Good environmental status achieved	Low
Antialtair	Good environmental status achieved	Low



Establishment of environmental targets (art. 10°)

Relevant existing environmental targets

N°1 Article 10° MSFD - ...Member States shall take into account the continuing application of relevant existing environmental targets laid down at national, Community or international level in respect of the same waters ...



Operational targets



- UNCLOS- relate to the extension of the continental shelf and to the exploration and explotaion of natural resources
- SPAR Convention against polluition and establishment of MPA



Establishment of environmental targets (art. 10°)

Targets from MSFD



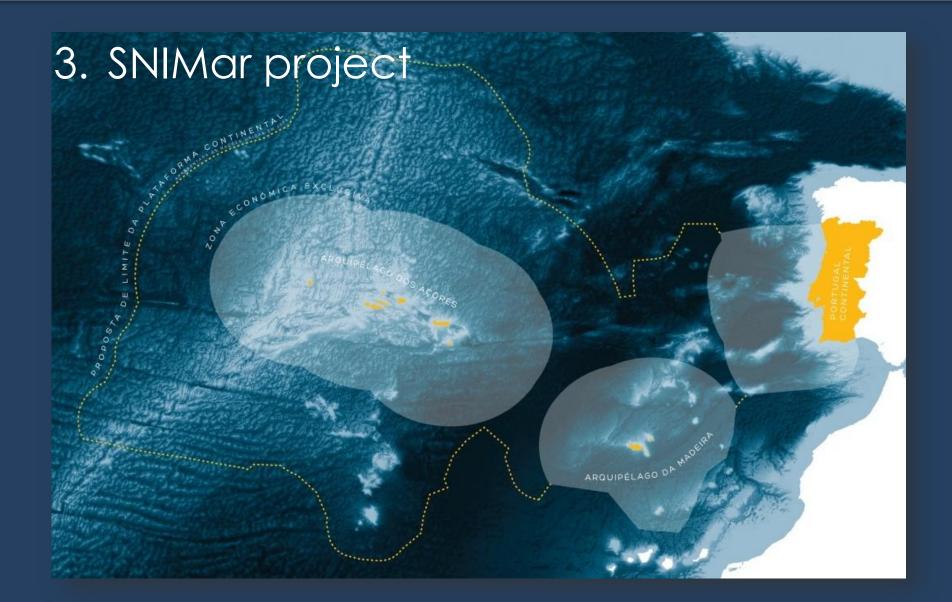
Operational targets



- Devepoment of management plans for MPAs
- Development of national law to access to genetic resources according to the Nagoia Protocol related to scientific research, bio prospection and exploration
- Continue to acquire technical and scientific data for the assessment of the environmental status – ex: EMEPC scientific cruises









EEA Grants Pre-defined project:

Preparation of integrated geographic information for marine and coastal water management (http://www.eeagrants.gov.pt/)

Included in the program:

Integrated management for marine and coastal water

Framework:

INSPIRE Directive (2007) & MSFD Directive (2008)

Project schedule:

35 months

Start: June 2014 End: April 2017

Budget: 2.35 M€









Promoter:



Donor partners:



National partner:



Programme operator:



Participating entities:













ÍSLANDS











A join venture of renowned entities



The problem:

What data on the marine environment exist?

Where are those data?

How can we acess those data?





The solution:

a marine geoportal

to increase the capacity of assessing and predicting

environmental status in marine waters







MISSION:

- 1. Increasing availability of services provided on-line
- 2. Significant reduction of waiting time for obtaining high quality thematic information
- 3. Establishing connections between SNIMar geoportal and other geoportals
- 4. Ensuring that system will work in a near future with license free



Three steps

First:



To identify existing information

Second:



To catalogue and prepare information

Third:



To display and facilitate access to online information

Local nodes

Local nodes and central node





How to do it?

Kit SNIMar:





one scholarship one laptop one server with firewal workpackages coordination
entities choose what information they want to
share and in which format
engagement with all partners

In each local node

With all local nodes







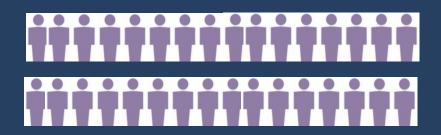


SNIMar numbers

16 scholarships 100%:



58 employees from 13 entities:



8 entities with "Kit SNIMar"





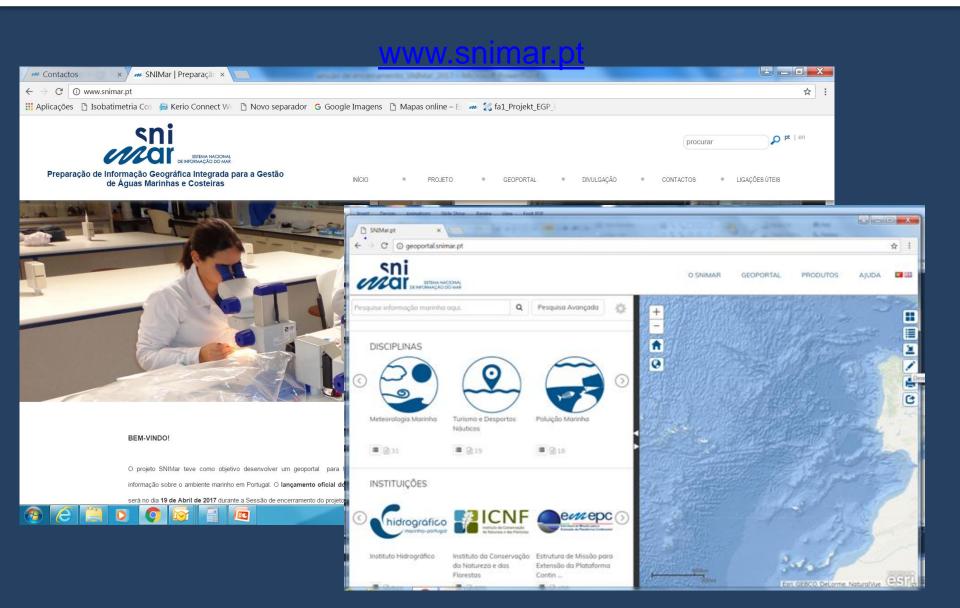
Geoportal marine information

- 2177 metadata
- 283 services
- 4 products
- > 5000 historical records

1 geoportal for public acess

- 9 local catalogues on line
- 1861 keywords displayed in Collaborative Keywords application

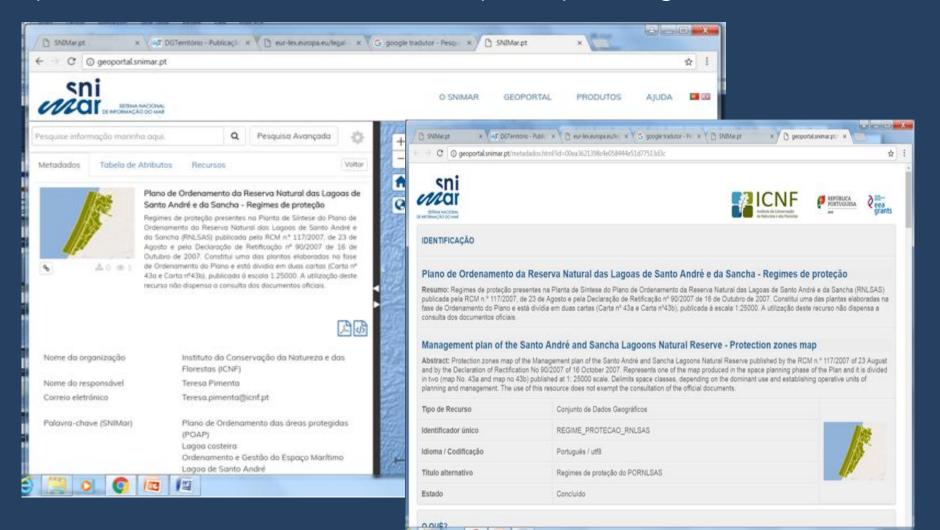






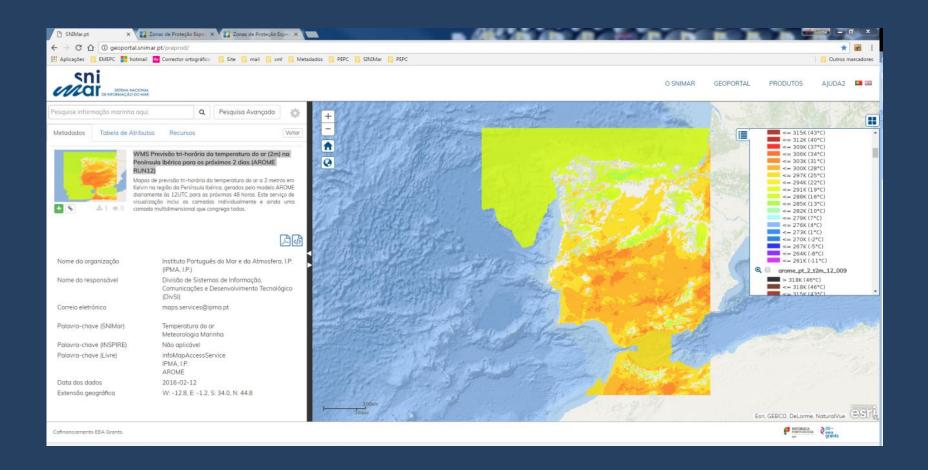


Spatial Data Sets – Natural reserve spatial planning





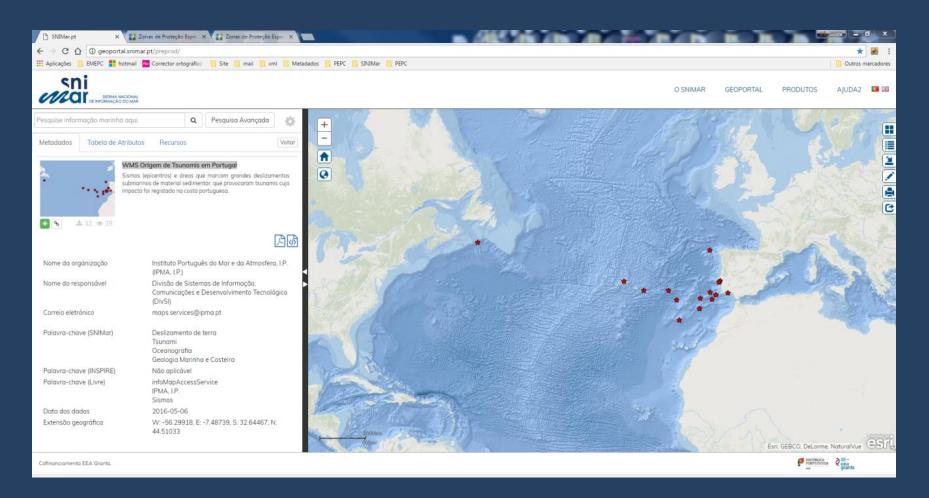
Web Map Service - Forecast air temperature every three-hour for the next two days (AROME RUN12)







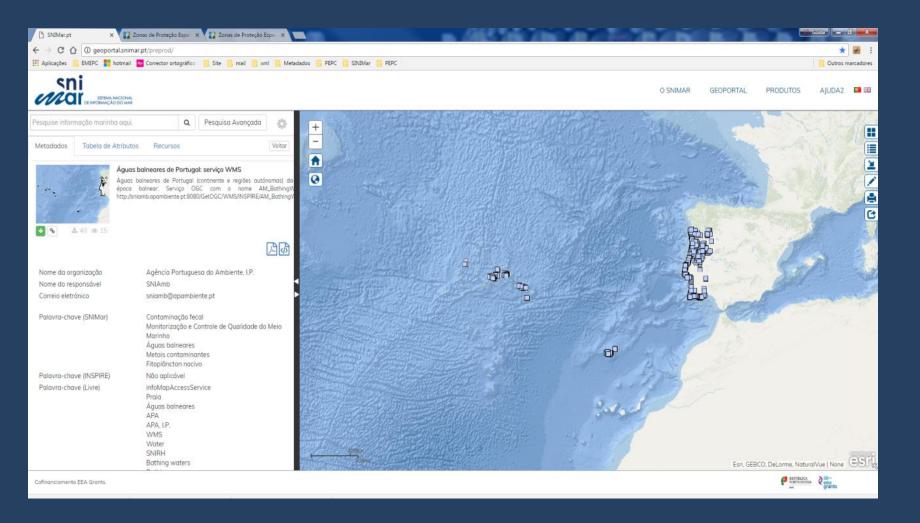
Web Map Service - Tsunamis in Portugal







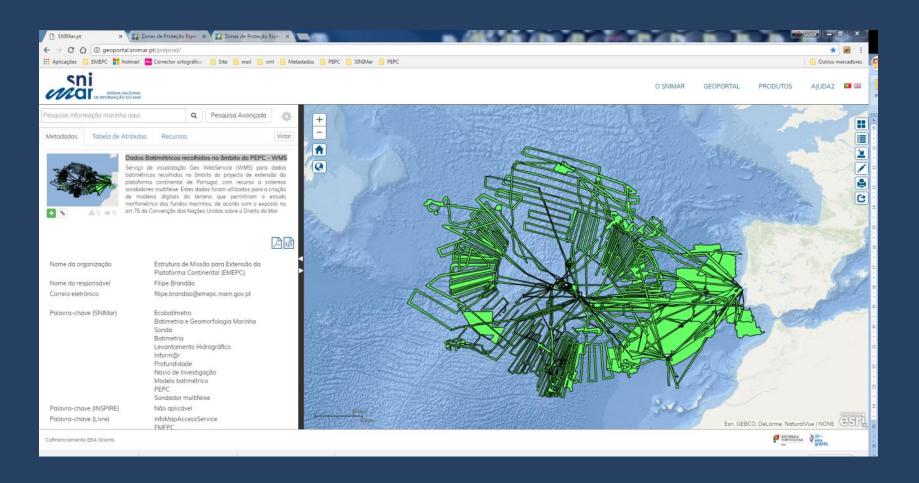
Web Map Service - Bathing waters in Portugal







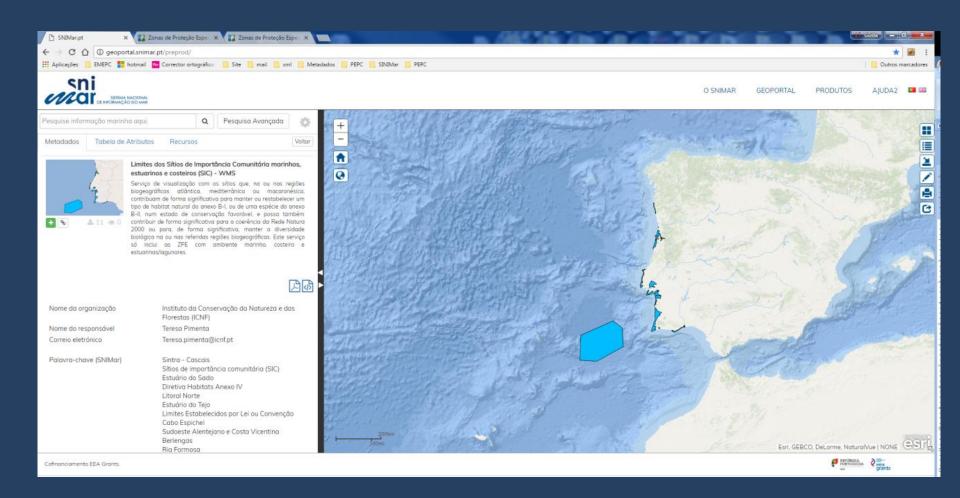
Web Map Service - Bathymetric data





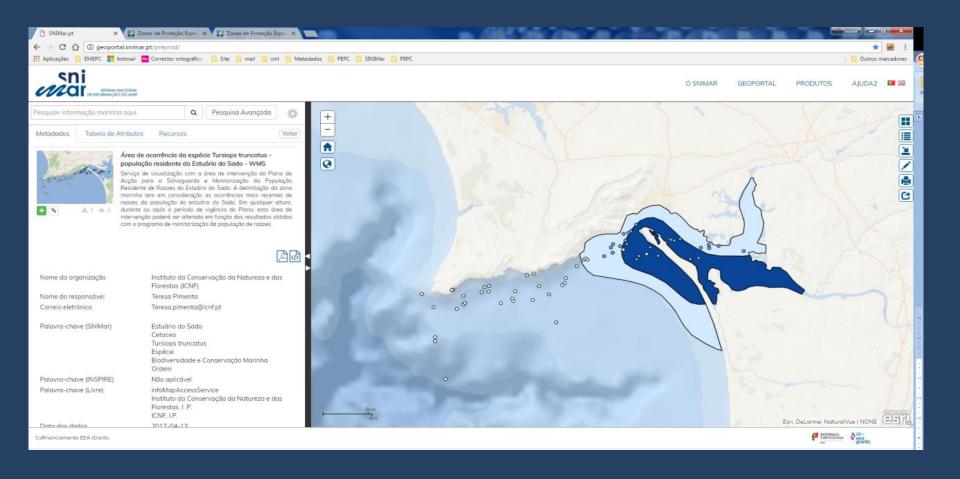


Web Map Service - Limits from Special Areas of Conservation





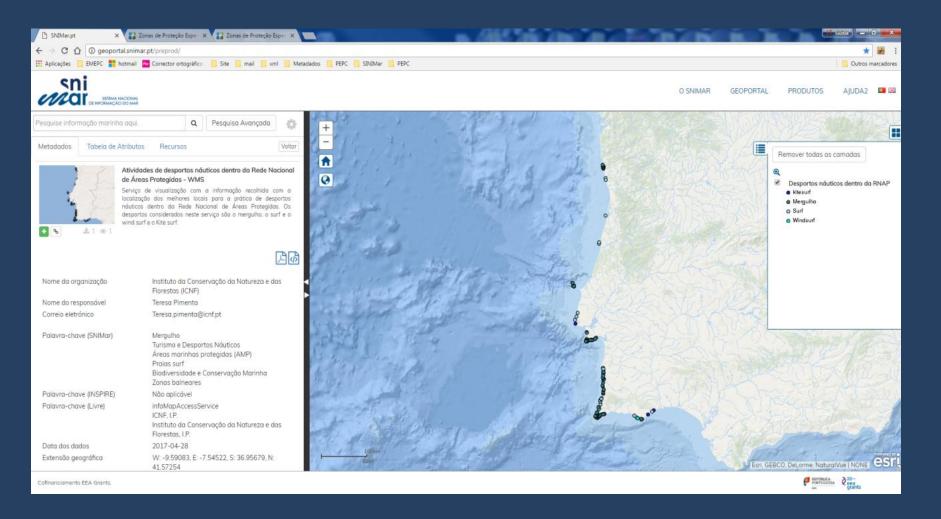
Web Map Service - *Tursiops truncatus* geographic distribution – resident population from Sado estuary





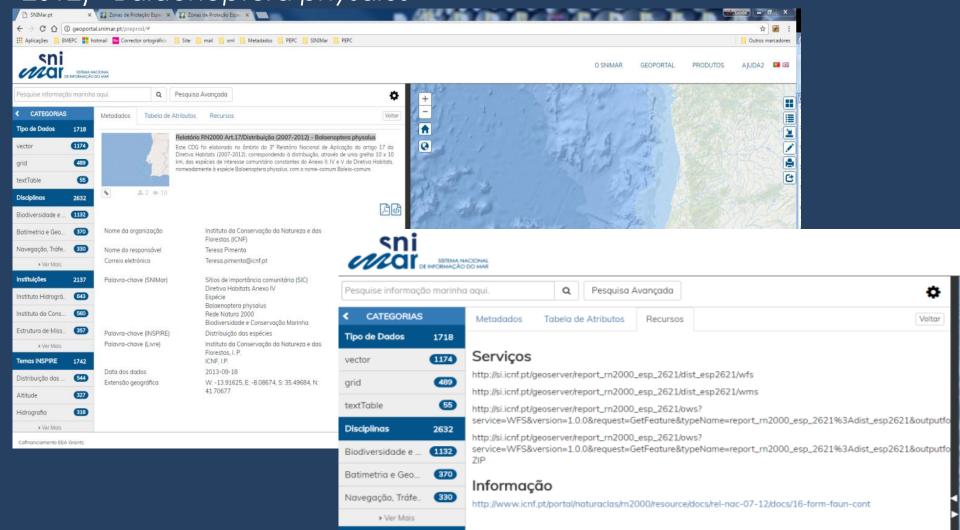


Web Map Service - Nautical sports inside the network of protected areas





Web Feature Services – Report Natura 2000 Art.17/Distribution (2007-2012) - Balaenoptera physalus







Challenges:

Sustainability of the geoportal & all the applications

Oportunities:

- Promote marine information sharing
- Increase visibility of their institutions and data
- Create opportunities for new partnerships in diferent thematic areas







SNIMar:

A geoportal to share, search and access marine data

www.snimar.pt

Thank you!