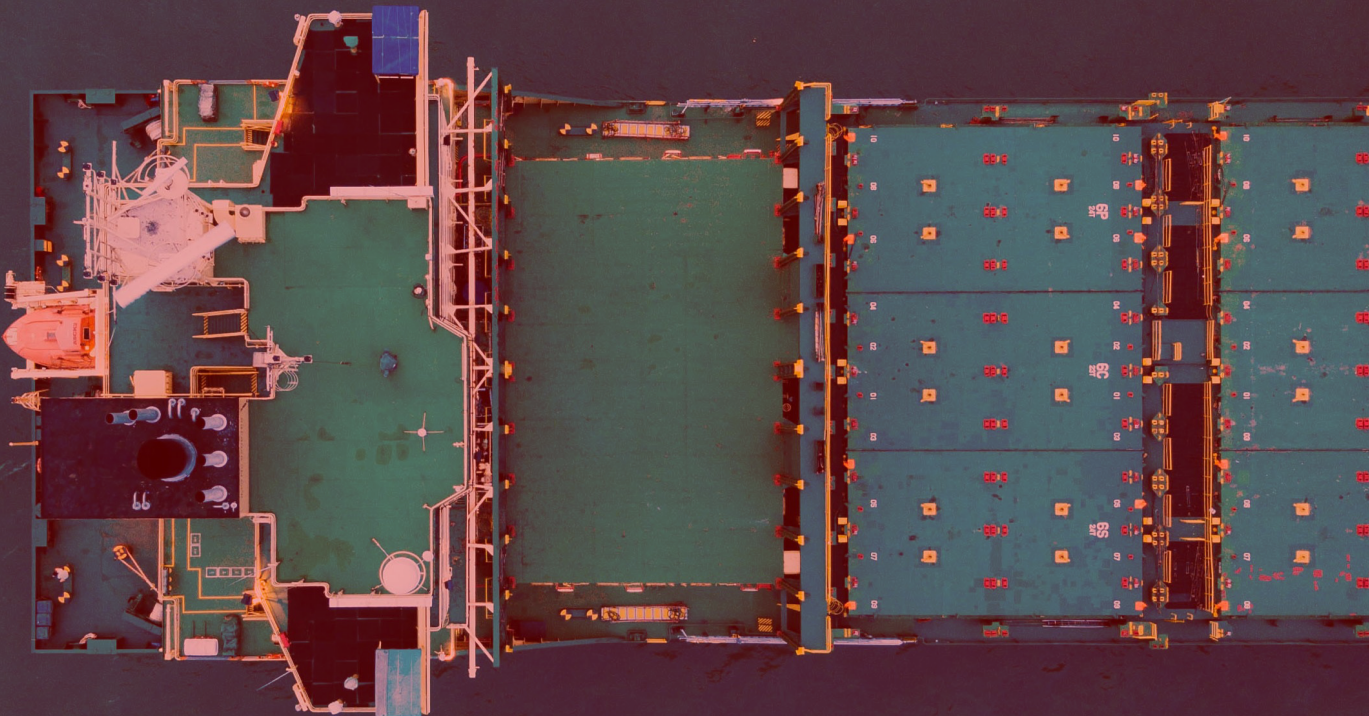




# MARSP

Macaronesian Maritime Spatial Planning

## Macaronesian Bulletin of *Maritime Spatial Planning*



### Coordinated by



### Partners



### Funded by




This project was co-funded by the European Maritime and Fisheries Fund Under the Grant Agreement EASME/EMFF/2016/1.2.1.6/03/S2.761306



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Pod of sperm whales swimming off the coast of Sao Miguel Azores. This species is one of many cetaceans that migrates across the archipelagos of Macaronesia.

# Editorial

## The MarSP project comes to an end!

This is the end of the [MarSP project](#) (Macaronesian Maritime Spatial Planning) and we have wanted to share [our results](#) with the public in our [Final Conference](#) held in São Miguel (Azores) on the 06 of December 2019 ([see Full report](#)).

All together the MarSP project has assisted the Portuguese and Spanish MSP processes in their corresponding archipelagos and built a common base from which promote cross-border coherence of MSP Plans. (Read more [PT](#), [ES](#)).

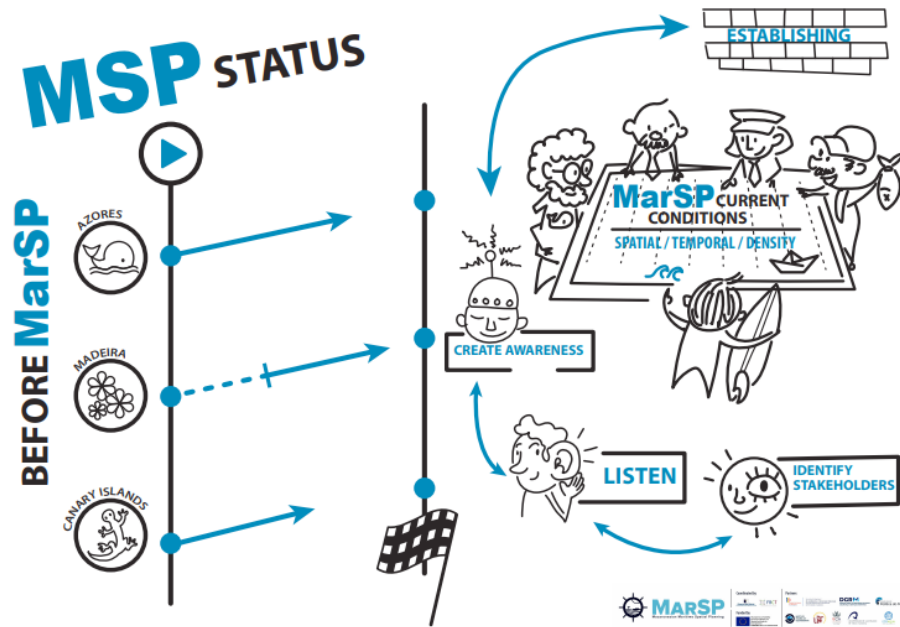
Discover the MarSP project from the perspective of the **STAKEHOLDERS**



*"Because they are not, first and foremost, but an outpost of Europe (...) over America, and an outpost of America over Europe (...) and over Africa. They are an inn placed in a great crossroads of the roads of the great towns"*

*Miguel De Unamuno*

*«Por Tierras de Portugal y de España», 1911*





# MarSP Consortium experience and take-home messages...

“Now that we have built this team we should continue working because the base work is done. Now we know what we want and where do we want to go and how to do it, so let's keep on working”

*Helena Calado*  
UAC

“All together...yes we can!!! It is not an easy road, but with cooperation, engagement, willingness and comprehension we will get there!”

*Maria Vale*  
FRCT

“There is still much work remaining and poses a huge challenge (because we are dealing with vast extensions of marine territory, new topics and a variety of maritime issues that are complex and time and resources consuming), but the Macaronesian Ocean future is full of opportunities and it might be exciting if we build it together”

*Javier García Onetti*  
UCA

“Adopting a bottom-up approach, where stakeholder engagement is taking a front-row seat throughout the Azores MSP process has been a fundamental aspect of the development of the Situation Plan. The resulting insights and lessons are being considered in the decision-making process”

*Aida Silva*  
DRAM

“Now, as never before, we are all in the same boat: building the Macaronesian Ocean. Would we take this opportunity?”

*Javier García Sanabria*  
UCA

“Work together, both online and physically. Not only sharing data, but also working together in different places and areas”

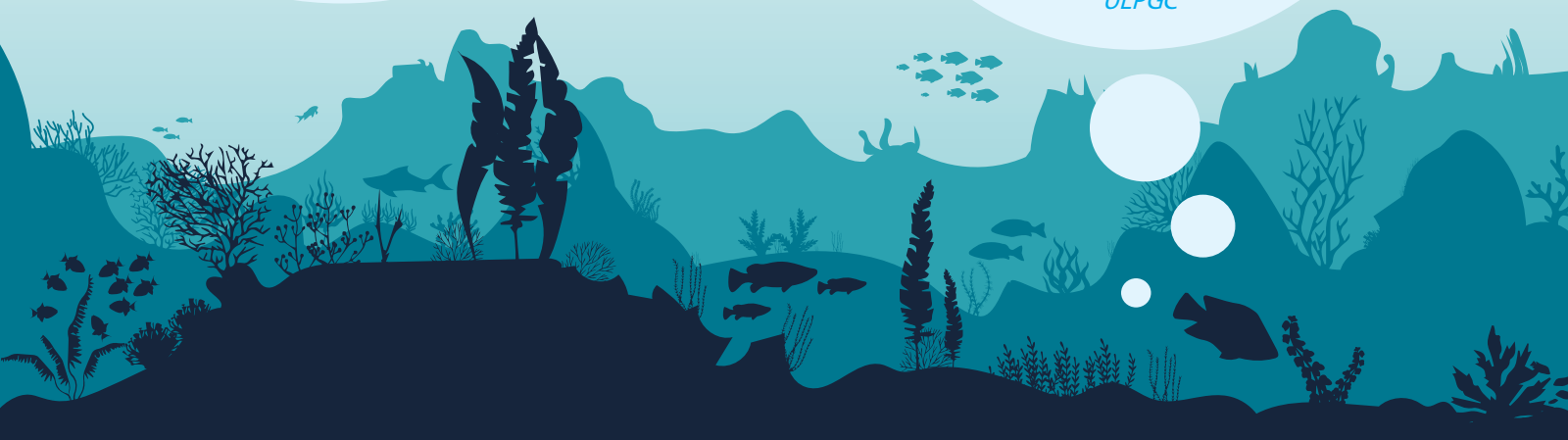
*Andrej Abramic*  
ULPGC

“The Macaronesian regions can and should cooperate in the framework of marine spatial planning. The MarSP project has been a pilot experience for the establishment of cooperation mechanisms in the long-term”

*Mario Caña Varona*  
IEO

“We need to keep joining forces for working together in the field of marine spatial planning. We need to stop working sectorally, but to work collaboratively from all sectors under the same light”

*Inmaculada Herrera Rivero*  
ULPGC





# MarSP Consortium experience and take-home messages...

“The MarSP project has created the foundation for marine spatial planning development in the Canaries considering the Macaronesia as a whole. We have made our contribution in coordination with the teams from the Azores and Madeira to establish a more rational usage organization of the marine space and interactions among uses”

*Sebastián Jiménez Navarro*  
IEO

“I think it was a great project and that we should keep developing marine spatial planning in the Macaronesia. Mainly in terms of cross-border cooperation that is a necessary issue which we must continue to work on”

*Isabel Lopes*  
SRA-DROTA

“It has been key to work together with the different stakeholders from the Azores, Madeira and the Canaries and with experts in other areas that have contributed to the project trying to develop a common strategy towards MSP”

*Ricardo Haroun*  
ULPGC

“In my experience, I would say that is 100% important to communicate to stakeholders in their language and to engage them always because they are the most important part of the MSP process. The communication and dissemination always need to be clear, inclusive and transparent”

*Beatriz Cândido*  
FRCT

“I have had the opportunity to learn some more technologies and many new things relevant for the development of the MSP process making the overall experience really good”

*Poulo Miranda*  
DRAM

“For being outermost insular regions it is especially at stake to maintain our future well-being and this concerns us all. We need to keep stimulating political and social will to ensure the implementation of marine plans and cooperate across borders”

*Víctor Cordero Penín*  
UCA

“I think the process needs to be transparent with the collaboration of all the stakeholders. From the base of the chain to the top of the administration and decision-makers”

*Claudia Hipolito*  
FGF





# MarSP Consortium experience and take-home messages...

“It was fundamental for the acquisition of more knowledge about our seas and potential uses and activities that can be done in Madeira. It was also fantastic to have a new platform where we can share interoperable data and the cooperation between the partners and what we learnt from the Azores and the Canaries was great”

*Vítor Jorge*  
SRA-DROTA

“Cooperation and good understanding among people is what makes possible to address complex problems in the marine environment and solve them satisfactorily”

*María De Andrés*  
UCA

“It has been really a rewarding tough and time-consuming work. It has required a lot of effort but I have seen how all partners have also got really involved because we consider that is crucial to contribute to the national MSP process and especially cross-border cooperation. It is really important that close regions that may share common interest work together”

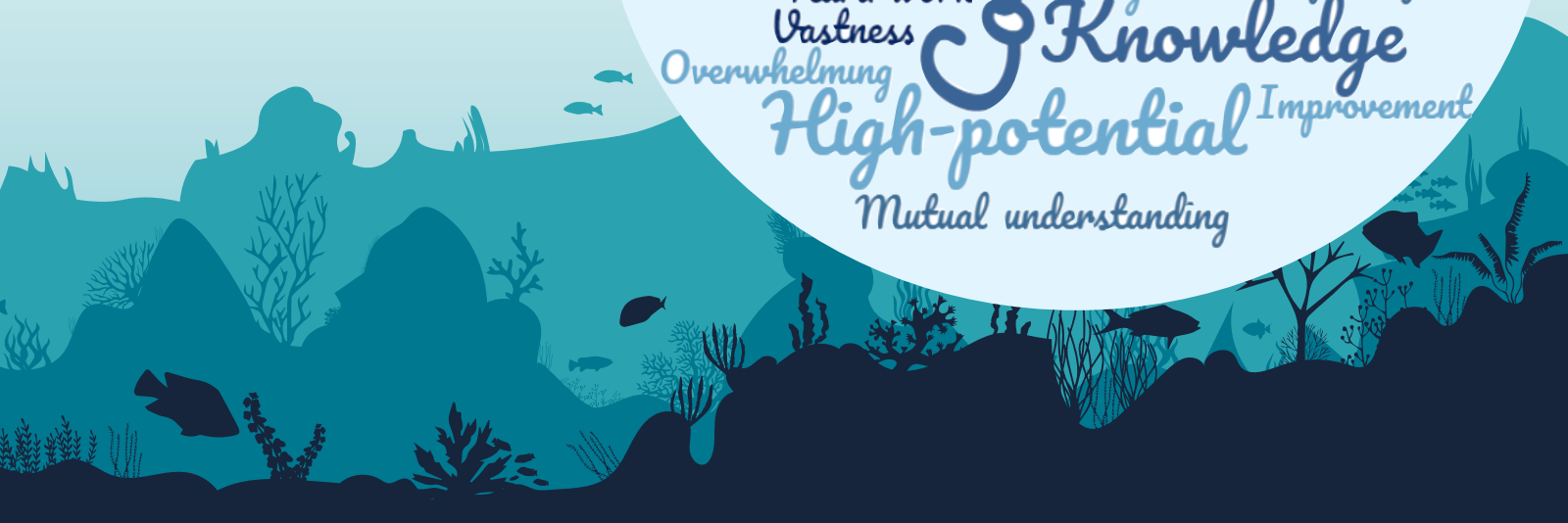
*Olvido Tello Antón*  
IEO

“We need to realize that nature is not just a resource, but the source of all our work and life. Thus, the collaboration between all political and scientific forces must focus not just in production but also in protection. This is the most important issue”

*Elena Prioetti*  
ULPGC

## MarSP in one word...

Capacity building  
Good-vibes  
Reflection  
Cheering  
Inspiration  
Planning  
Uniqueness  
Ambitious  
Feedback  
Fellowship  
Comprehension  
Friendship  
Team-work  
Macaronesia  
Effort  
Learning  
Inclusive  
Challenging  
Satisfying  
Synergies  
Rewarding  
Positive  
Great  
Compelling  
Hard work  
Vastness  
Overwhelming  
Knowledge  
High-potential  
Improvement  
Mutual understanding



# MSP News

## “Madeira MSP I&D – Shaping Marine and Coastal future”

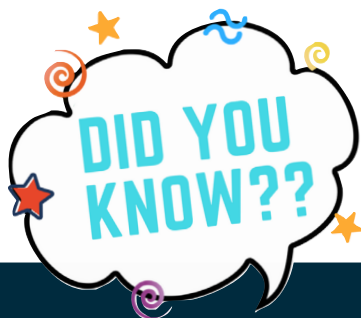
During the week of November 11-15, at the University of Madeira's rector, actions have been taken to develop competencies with a view to revising the Maritime Spatial Planning Situation Plan (PSOEM).

The Autonomous Region of Madeira has already completed its planning proposal. But given that it is a dynamic process, the existence of important knowledge gaps, and the need to ensure coherence in the Macaronesian biogeographic region, has established a cooperation project with the neighboring archipelagos, the MarSP ([Read more](#))

## IOC-UNESCO MSPglobal Expert Group kicks off preparation of International MSP Guidance

The two-day discussions focused on governance aspects at national and transboundary levels, as well as the need to update the [IOC-UNESCO 10-step approach](#) for the planning and management of marine areas and their resources ([Read more](#)).

Codfish dryin at Câmara de Lobos, Madeira



Mussels filter up to 25 liters of seawater every day making them excellent bioindicators of marine pollution? ([Read more](#))

Sperm whales groups organize around older females that act as guides and maintainers of the structure and social cohesion? ([Read more](#))

Nearly 60% of sperm whales' deaths are due to ship strikes in the Canary Islands? ([Read more](#))

# MSP News

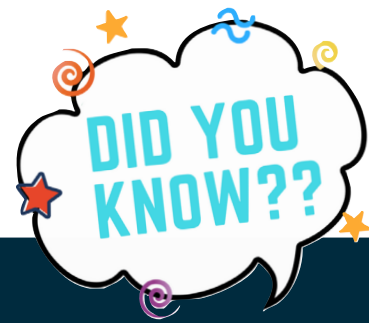
## Joint HELCOM-VASAB Maritime Spatial Planning Working Group, an example applicable for the Macaronesian sea-basin?

A joint co-chaired Working Group on Maritime Spatial Planning was launched in October 2010 by HELCOM and the Vision and Strategies around the Baltic Sea (VASAB) Committee to ensure cooperation among the Baltic Sea Region countries for coherent regional Maritime Spatial Planning (MSP) processes in the Baltic Sea. Among other works, this Working Group has recently launched [BASEMAPS](#), a map service to access Baltic Sea maritime spatial planning (MSP) relevant data from the original source where it is stored including national MSP plans harmonized. Could this be good practice for the EU Macaronesia? ([Read more](#)).

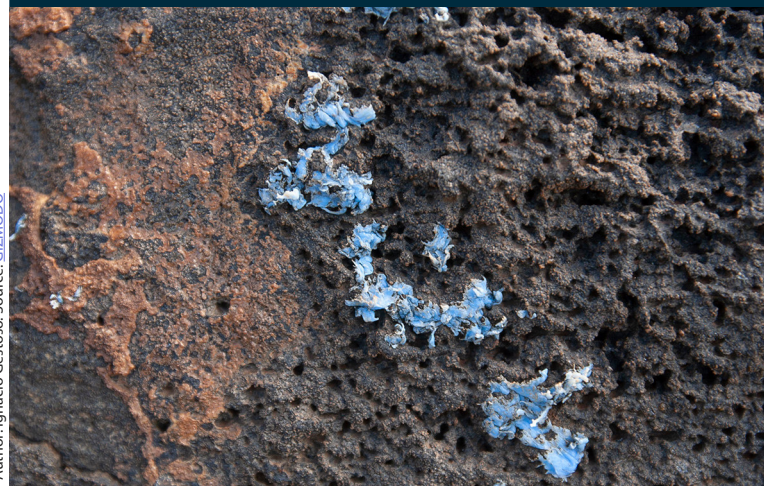
*"It is not necessary to invent new ideas. When they are good, it is enough to apply them in the right moment"*

**Jacques DELORS**

*«L'heure de vérité», Antena 2, 17 de mayo de 1992*



There is a novel phenomenon of a strange new blend of rock and plastic forming in the volcanic coast of Madeira, which scientists have called "Plasticrust"? ([Read more](#))



Author: Ignacio Gestoso. Source: GIZMODU



Science of The Total Environment  
Volume 687, 15 October 2019, Pages 413-415



### Plasticrusts: A new potential threat in the Anthropocene's rocky shores

Ignacio Gestoso <sup>a, b, c, e</sup>, Eva Cacabelos <sup>a, c</sup>, Patrícia Ramalhosa <sup>a, d</sup>, João Canning-Clode <sup>a, b, e</sup>

Saltworks of "Janubio" in Lanzarote, Canary Islands





# The administration manages...

## Which has been the fate of European Outermost Regions in the negotiations of the EU Cohesion Policy next financial framework?

As [analysed by the Conference of Peripheral Maritime Regions \(CRPM\)](#) the European Outermost Regions (ORs) manage to avoid the cuts in the European Cohesion Policy for the next [Multiannual financial framework for 2021-2027](#). In this regard, it has been helpful, firstly, the special

recognition of ORs as singular territories made by Article 349 of the Treaty on the Functioning of the European Union and, secondly, an efficient lobby policy from the ORs regional governments towards their national authorities and Brussels. An example of the latter is the presidents Joint Political Declaration of the European ORs adopted after their meeting in Brussels on the 18-19 of November 2019 manifesting our singularities, and socio-economic challenges, as well as the assets that our regions bring to the EU and the need, for the next programming period, to adopt an ambitious budget, with appropriate measures, to better respond to these challenges and make full use of these assets. ([Read more](#))



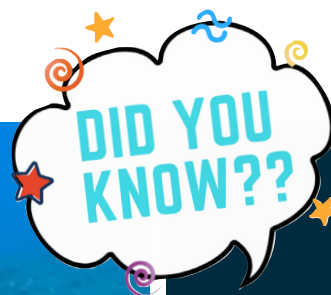
*"A bird flying over the Upper Rhine sees no borders. The challenge is how to make this happen on the ground"*

*Joachim Beck  
Director of the Euro-Institute,  
Germany*



You can already read the Joint Political Declaration of the last Outermost Regions Conference of Presidents held in Brussels on the 18-19 of November 2019

Follow the progress! The next XXIV Outermost Regions Conference of Presidents will be held in San Martín island on the 6-7 of February of 2020



In recent years, about 200 marine exotic species have established in the Macaronesian waters introduced by human activities and favoured by climate change? ([Read more](#))

Know more about the human perturbations and climate change effects on the marine ecosystems in the East-central Atlantic through the [MIMAR Macaronesian project](#). (videos in [ES](#) y [PT](#))

# The administration manages...

## Exchanging information leads to more effective actions at sea: CISE

Improving the coordination between maritime authorities and across borders is a long-winded work. The key to success is interoperability: the technical ability to exchange information between systems that were developed completely independent from each other. The [EU's Common Information Sharing Environment \(CISE\)](#) is doing exactly that, integrating existing surveillance systems and networks and giving all concerned authorities access to the information they need for their missions at sea. This is a perfect framework to improve cross-border maritime surveillance monitoring in the European Macaronesia. ([Read more](#))



A new study released to support the Common Information Sharing Environment (CISE)

The XIII Regional Government of Madeira has recently created a new Regional Secretariat specifically for the Sea and Fisheries ([Read more](#))

## Madeira is developing a whole new generation of territorial management tools for coastal zones

Good integration with land planning is essential in order to effectively plan for Blue Economy sectors that require onshore facilities. Thus, integrated coastal zone planning and management is fundamental for a coherent and effective marine spatial planning. In this sense Madeira is developing a whole new generation of territorial management tools for coastal zones, including climate change scenarios and their effects: coastal erosion, overgrowth and flooding, and has approved an adaptation strategy, particularly for the agricultural sectors, energy, health, tourism, forest, water and biodiversity. ([Read more](#))

*"Society (...) needs to be informed and sensitized about the challenges of resilience and adaptation to climate change in the emergency context of the world"*

**Paulo Veiga**

Secretario de Estado de Economía Azul del Gobierno de Cabo Verde



The figures show that 80% of marine litter originates on land? ([Read more](#))

The EU fish processing sector turnover exceeded (in 2015) €30 billion and generated employment for 130.000 people, 45% of whom were women? ([Read more](#))

Within the EU fleet the Alaska pollock was the top caught species in 2016. Anchoveta catches came in second and skipjack tuna ranked third? ([Read more](#))

# Undergoing research...



## Will climate change make small island states disappear?

Hans-Otto Pörtner, a co-author of the [IPCC Special Report on the Ocean and Cryosphere in a Changing Climate](#), talked to Euronews about the future for small island states with ongoing climate change. "Small islands will be challenged (...) and there are two main reasons — one is the demise of warm-water corals and coral reefs [which provides protein supply and small scale fisheries resources], and the second one is the sea level rise".

In this regard, how marine spatial planning (MSP) can both be affected by, and adapt to global climate change? This is exactly what the [OceanPlan project](#) is investigating. ([Read more](#))

## Ocean community warming responses explained by thermal affinities and temperature gradients.

Fish are moving to the bottom of the sea driven by climate change. Global warming, more pronounced in the ocean, had been pushing marine life northward for decades. Now, a scientific study with observations over 30 years confirms this translation of the most heat-sensitive species to colder waters, while warmer waters would be depopulating. Resulting impacts on ecosystems and fisheries are still to be determined. ([Read more](#))

When it comes to cleaning up the Oceans, technology may be good but education is even better ([Read more](#))

*"Some waste is potentially recyclable, but unfortunately not single-use objects, which go straight in the bin. That's why from 2021 the EU will be banning all this kind of single-use utensils — plates, stirrers, cotton buds, and so on - all the things you frequently find on beaches will be banned"*

#WorldCleanupDay

Alain Dumort

EU Beach Cleanup representative in Marseille, France

## What are you doing about plastic waste?



# Blue Growth in Macaronesia

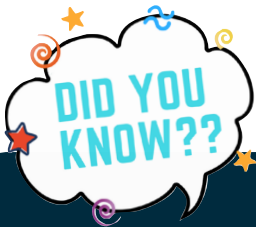


## “Essence of Cluster Excellence Management Training Programme”, a formative common initiative for the Macaronesia

The [CLUSTERING project](#) responds to the Spanish acronym of “Intercluster cooperation for the internationalization of small and medium enterprises in the Macaronesian regions”. Among other actions, this project will undertake training sessions to promoters, managers and public technicians from the Azores, Madeira and the Canary Islands to provide assistance to cluster building in the region. ([Read more](#))

## A growing maritime sector: aquaculture

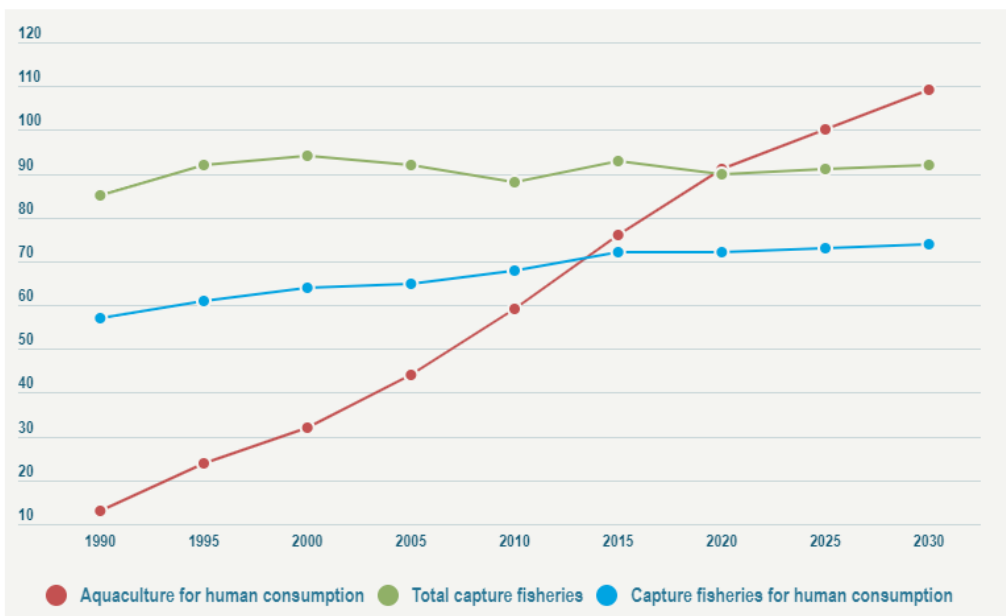
With 5.8 percent annual growth rate during the period 2001–2016, aquaculture continues to grow faster than other major food production sectors. Besides, many think there is real potential for growth given that [two-thirds of all seafood consumed in the EU is currently imported](#). However, feeding aquaculture fish might increase the fishing pressure on wild fish stocks and intensive farming can cause severe impacts locally on the marine environment. It is crucial to undertake responsible aquaculture policies and the application of innovative technology and research to ensure that this industry grows within the safety ecological limits. ([Read more](#))



- That currently for the first time, aquaculture provides 53 percent of fish for human consumption? ([Read more](#))
- China is the world’s top fish producer by far, and since 2002 has also been the largest exporter of fish and fish products? ([Read more](#))

NOTE: Excludes aquatic mammals, crocodiles, alligators and caimans, seaweeds and other aquatic plants.

## Global capture fisheries and aquaculture production, 1990–2030



SOURCE: The State of the World Fisheries and Aquaculture 2018

# Blue Growth in the Macaronesia

*“It is time for Europe and the states to look at their islands as an investment rather than an expense, as assets rather than liabilities”*

*Manuel Ara Oliveira*

*Regional Director of Spatial Planning and Environment, Government of Madeira*

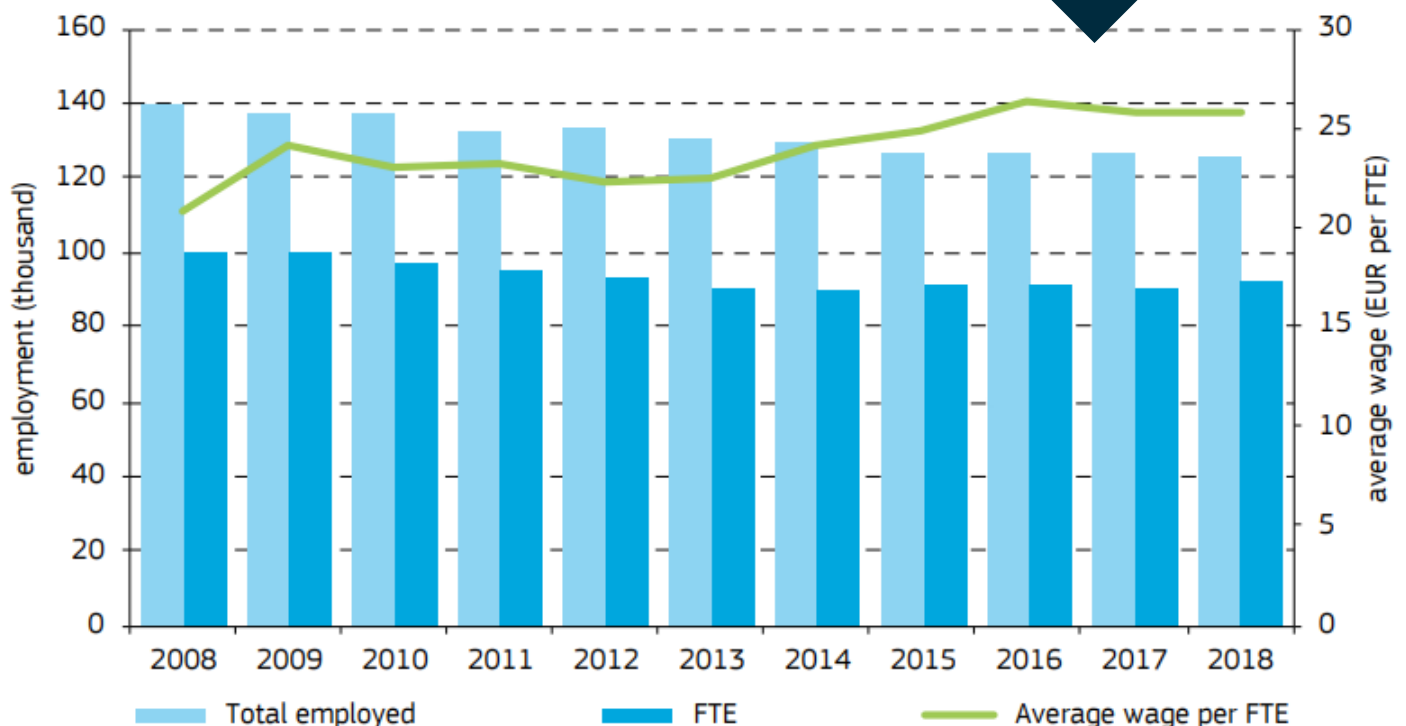
The second edition of the “Cabo Verde Ocean Week”, in which the country becomes, at least for a week in a central point for the Blue Economy 

From the last 25-29 of November of 2019, Cabo Verde held an international event. Among other issues throughout the event, it was especially highlighted the importance of sustainable management of seas and oceans and its resources in a clear sign of its commitment towards a sustainable Blue Growth. Besides, high vulnerability to climate change effects that faces the islands is a common issue among its neighbours’ archipelagos of the Macaronesia. ([Read more](#))

## The EU fishing fleet: employment and wages


The EU fishing fleet last report released early in 2019 shows that the EU fleet directly employed circa 152.000 fishers, or 115 000 in Full-time equivalent (including Greece), earning on average EUR 26.400 in annual wage (including crew wages and unpaid labour) per Full-time equivalent. This amount increased by 6.3% compared to 2015 but varies significantly across the Member States. ([Read more](#))


EU fleet employment (in total employed and Full-time equivalent) and average wage per Full-time equivalent; variation in employment and average wage per Full-time equivalent (based on 2008=100)



Source: [STECF and Commission Services \(MARE/A3/AC\(2018\)\)](#). Nowcast values for 2017 and 2018 (all figures exclude Greece)

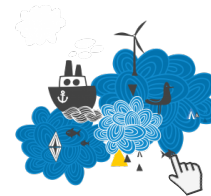
# Past and upcoming MSP events

 The Blue Economy Forum for ORs, organized by the European Commission on July 9th of 2019 in Brussels ([More info](#))

 The 6th Atlantic Stakeholder Platform Conference took place on November 12-13 2019 in Porto, Portugal ([More info](#))

 The [4th International MSP Forum](#), the [3rd Baltic MSP Forum](#), and the final conference of the Pan Baltic Scope project combined in the "[Global meets regional](#)" Maritime Spatial Planning Forum between 19 and 21 November in Riga, Latvia

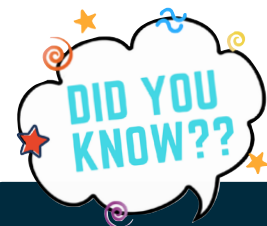
Photos and Sessions recorded available to watch!



- All-Atlantic Ocean Research Forum will be held in Brussels, Belgium ([Go to event](#)).
- The next European Maritime Day will be held in Cork, Ireland. ([Go to event](#)).
- 2020 UN Ocean Conference will be held in Lisbon, Portugal ([Go to event](#)).



- The Blue Book "Copernicus for a Sustainable Ocean", informs on how the Copernicus Marine Service benefits society as a whole. (European Commission, 2019) ([Open Access](#)).
- Multi-uses in the Eastern Atlantic: Building bridges in maritime space. (Calado et al., 2019) ([Full reference](#)).
- Site selection process for floating offshore wind farms in Madeira Islands. (Díaz, H. et al., 2019) ([Full reference](#)).
- The influence of maritime spatial planning on the development of marine renewable energies in Portugal and Spain: Legal challenges and opportunities. (Salvador, S. et al., 2019) ([Full reference](#)).
- Spatial planning to estimate the offshore wind energy potential in coastal regions and islands. Practical case: The Canary Islands. (Schallenberg-Rodríguez, J and García Montesdeoca, N., 2019) ([Full reference](#)).



- That the blue economy of the EU Atlantic area is one of the largest in Europe counting for €65 billion gross value added and employs over 1,2 million people? ([Read more](#)).



# How do you think MarSP will contribute to the MSP national process, in Europe or Globally?

“Providing updated cartographic sectoral information, especially relevant for some issues such as artisanal fisheries. Besides, significant work has been done regarding the dissemination of MSP among the stakeholders”

*Sagrario Arrieta*  
MITECO

“The MarSP project will deliver a distinctive contribution to MSP in the EU because it brings together three outermost regions of the EU, to work on matters that concern a vast marine area, with unique ecological features and great potential for the blue economy”

*Juan Ronco*  
DG MARE

“The innovative transboundary approaches used by MarSP in the Macaronesian archipelagos represent an excellent input to MSPglobal in order to inspire other regions of the world in support to the Joint Roadmap to accelerate Marine Spatial Planning worldwide”

*Alejandro Iglesias*  
IOC-UNESCO

“MarSP outcomes provide a good example of how to deal with challenges in an environment of remoteness and oceanic features, contributing with an added value also beyond Europe”

*Ingela Isakkson*  
MSPglobal Expert Group

“One of the strengths of the MarSP project was the vast involvement of stakeholders throughout several stages of the project, contributing to the project’s robustness whilst raising awareness to MSP in Macaronesia and around Europe”

*Lisa Pinto de Sousa*  
UA-DGRM

