Bases para la planificación sostenible de áreas marinas en la Macaronesia

Blue Growth in the Macaronesia

Ricardo Haroun Tabraue & Yaiza Fernández-Palacios
IU-ECOAQUA, ULPGC

www.plasmar.eu

EU Blue Growth Strategy

Support **sustainable growth in the marine and maritime sectors as a whole**.

It is the maritime contribution to achieving the goals of the **Europe 2020 strategy** for smart, sustainable and inclusive growth.
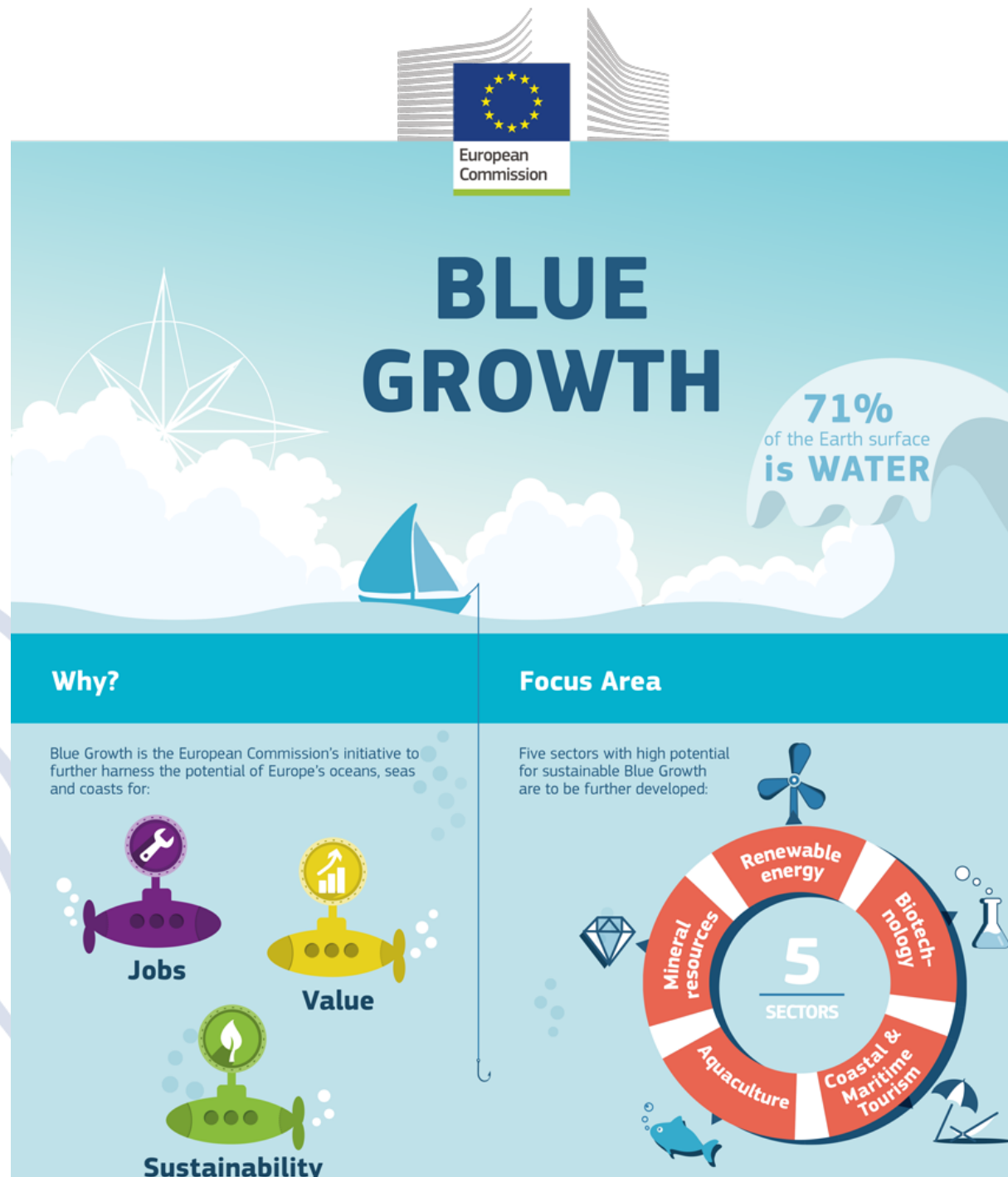
The **EU 'Blue' Economy** represents roughly **5.4 million jobs** and generates GVA of almost **€500 billion/year**.

However, further growth is possible in a number of areas which are highlighted within the strategy.

The **5** Blue Growth sectors

Biotechnology
medicines, industrial enzymes

Renewable energy
wind, waves, tides, biofuel

Coastal & Maritime Tourism
coastal tourism, cruise tourism, yachting

Mineral resources
gravel, sand, zinc, cobalt, copper

Aquaculture
farming of fish, shellfish, marine plants

other **sectors of the blue economy** crucial for value & jobs

Shipbuilding & Ship repair

Transport
(cargo & ferry)

Fisheries

Offshore oil & gas

PLASMAR

PROYECTO COFINANCIADO POR LA UNIÓN EUROPEA
Investigación e Innovación

MAC 2014-2020
Cooperación Territorial

Inter

EU Macaronesian Region

- different land and maritime surface areas,

- many common biogeographical characteristics (small, isolated, volcanic origin),

- high biodiversity areas (one of Europe's most important biodiversity hotspots),

- different population size and economy (:unequal distribution of population density, economic development and pressures on the corresponding terrestrial and marine ecosystems).
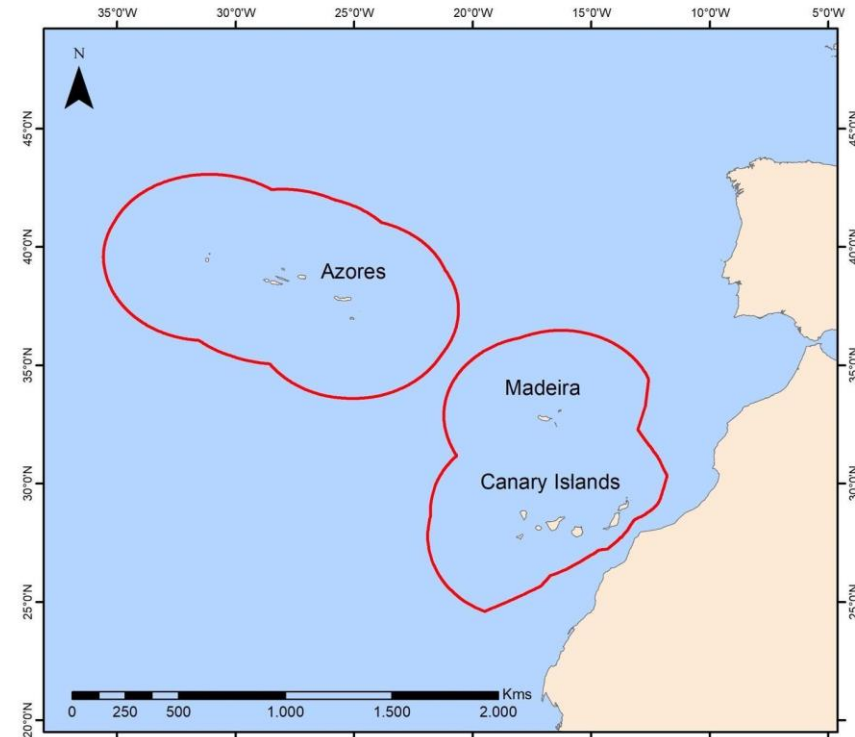
Map: European archipelagos in the Macaronesian Region, located in the Central East Atlantic. — limit of the Marine Waters where the MSFD is of application. Source: https://cdr.eionet.europa.eu/

Table: Descriptive geographic and social data of the European Macaronesian archipelagos.

	AZORES	MADEIRA	CANARIES
Number of islands	9	7	7
Land area, km²	2322	802	7447
EEZ size, km²	930687	442248	462 855
Population (2017)	243 862	254 368	2 164 300
GDP (2017) million €	4.067	4.353	44.206

PLASMAR

PROYECTO COFINANCIADO POR LA UNIÓN EUROPEA
Investigación e Innovación

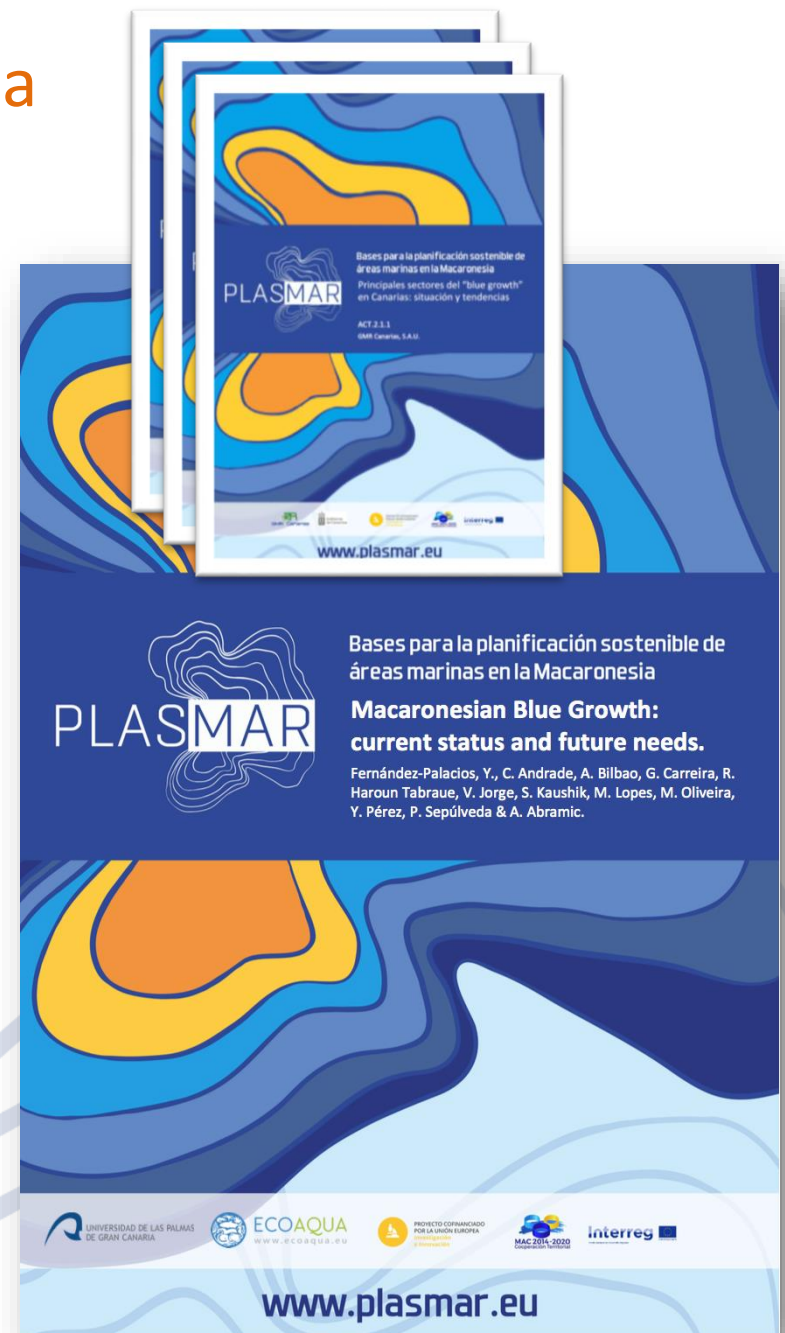MAC 2014-2020
Cooperación Territorial

Blue Economy in the Macaronesia

PLASMAR analysed for the first time the **situation** and **trends** of BE sectors in the Region:

- Trends in Employment, GDP-GVA, production, etc.
- Policies, instruments or initiatives.
- Available prospects.

ANALYSED SECTORS	CNAE code
Aquaculture	✔
Blue biotechnology	✘
Renewable ocean energy	✘
Deep-sea mining	✘
Coastal & maritime tourism	❗
Fisheries	✔
Maritime transport	✔
Shipbuilding & shipgear	❗
Offshore oil & gas	✘
Desalination	✘

Bases para la planificación sostenible de áreas marinas en la Macaronesia

Macaronesian Blue Growth: current status and future needs.

Fernández-Palacios, Y., C. Andrade, A. Bilbao, G. Carreira, R. Haroun Tabraue, V. Jorge, S. Kaushik, M. Lopes, M. Oliveira, Y. Pérez, P. Sepúlveda & A. Abramic.

www.plasmar.eu

Deliveries 2.1.1a

Zonas aptas.
Zonas con condicionantes
Zonas de exclusión
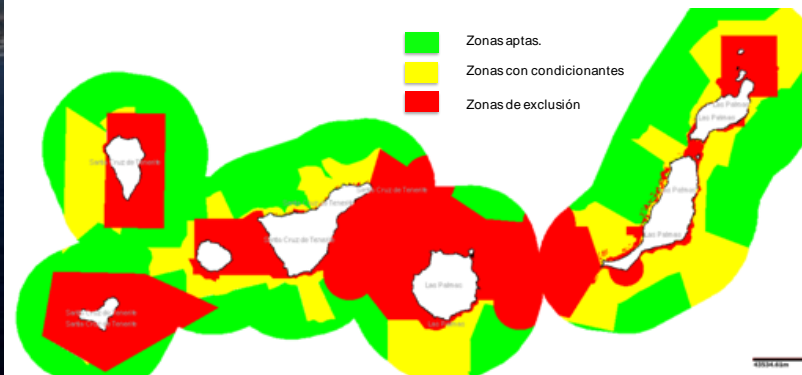
State and prospects

ANALYZED SECTORS	EU State (EC, 2018)	World Prospects (OECD, 2016)	AZORES State	AZORES Prospects	MADEIRA State	MADEIRA Prospects	CANARIES State	CANARIES Prospects
1 Fisheries	Established	Modest growth	Established	Stable	Established	Stable	Established	Stable
2 Aquaculture	Established	High growth	Emerging	Significant long-term potential	Established	High growth	Established	High growth
3 Blue biotechnology	Emerging	Significant long-term potential	Emerging	Significant long-term potential	Emerging	Significant long-term potential	Emerging	Significant long-term potential
4 Coastal & maritime tourism (seatrips, cruises)	Established	High growth	Established	High growth	Established	High growth	Established	High growth
5 Maritime transport	Established	High growth	Established	High growth	Established	High growth	Established	High growth
6 Ship repair and maintenance	Established	High growth	Established	Stable	Non-existent	No development	Established	High growth
7 Extraction of aggregates	NA		Established	Stable	Established	Stable	Non-existent	Unknown
8 Deep-sea mining	Emerging	Significant long-term potential	Non-existent	Unknown	Non-existent	No development	Non-existent	Unknown
9 Offshore oil & gas	Established	Stable	Non-existent	No development	Non-existent	No development	Non-existent	No development
10 Renewable ocean energy	Emerging	Significant long-term potential	Non-existent	No development	Emerging	Unknown	Emerging	Significant long-term potential
11 Desalination	Emerging	High growth	Non-existent	No development	Emerging	Stable	Established	Stable

Legend:

State (EU, 2018):
- ❌ Non-existent
- ✓ Emerging
- ✅ Established

Prospects (OECD, 2018):
- ❌ No development
- ❓ Unknown
- ⚙ Significant long-term potential but not yet at commercial scale
- → Stable
- ↗ Modest business and employment growth
- ↑ High long-term growth of business and employment

☐ Main established sectors
☐ Main emerging sectors

(Table under revision)

OBRIGADO, GRACIAS, THANKS!!