Atlantic Arc Commission
Smart Specialisation
in the Atlantic Regions
(24 June 2015)

MS	Region	Description of marine-related priorities
Spain	Andalucía	- P1. Mobility and logistics - P2. Advanced industry related to transport - P3. Endogenous territorial resources - P4. Tourism, culture and leisure - P5. Health and social welfare - P6. Agri-food and healthy eating - P7. Renewable energies, energy efficiency and sustainable construction - P8. ICT and the digital economy
	Asturias	- STEEL link with Maritime Industries and Renewable Marine Energies - Advanced Materials and Technology for Advanced Manufacturing - Logistics Transport, in relation with the ZALIA - Logistic Business Park in Asturias – Intermodal Platform for the transport of goods from the NO of the Iberian Peninsula to the Port of Gijón towards USA, in particular. - Clean up and Treat Waste Water
	Cantabria	- Maritime Egineering - Biotechnology
	Galicia	- Value Enhancement of Production Chains linked to the Sea - Development of the Galician Aquaculture Sector - Biomass and Marine Energies - Modernisation of the Primary Galician Sectors/Fisheries - Modernisation of the Tourism Sector - Diversification of Driving Sectors: Automotive and Shipbuilding
	Navarra	- Renewable energy - Environment and waste management - Biomedicine
	País Vasco	- Shipping industry - Cluster of maritime industries - Offshore wind farms - Fisheries - Coastal and cruise tourism - Blue technology (development of marine energies) - Biosciences
France	Aquitaine	- Chemicals - Industrialisation of materials (nanostructured materials with high performance organic thermo-structural composite structures and automated or low-cost manufacturing processes): recreational sailing and water sports, shipbuilding, manufacturing of components for the exploitation of marine energies, etc. - Embedded software: transmission of electronic data (sensors, microchips and embedded software); techniques for analysing data generated on a massive scale by connected objects with a view to self-regulation of warning systems (coastal surveillance and processing of "coastal" data), maintenance and management of fleets or embedded software/connected objects applied to the (maritime) tourism sector in Aquitaine. - Smart delivery of active ingredients for the health and well-being sectors (including balneology R&D): manufacture of ingredients and intermediate food products, or of food supplements, cosmetic products and organically-sourced phytosanitary products for the agri-food sector (food ranges) and pharmaceutical sector: seaweeds, marine minerals, etc. - Smart and clean mobility: development of intelligent transportation systems (ITS) applied to the maritime and ports sector and location based services (LBS): making transport flows more fluid, assistance, observation and safeguarding of transport flows of goods and people,

		energy-efficient and environment-friendly port (Port of Bordeaux), geo-location.
		- Harnessing energy from biomass and biorefineries for the industrial sector (marine biomass, biofuel from microalgae).
	Basse-Normandie	- Sustainable and Intelligent Materials (including ocean-related materials) - Environments and Resources for Safe, Healthy and Sustainable Food (including Aquaculture) - Energy Transition (including the development of renewable marine energies) - ICT and Digital Society (for Tourism, Renewable Marine Energies, etc.)
	Bretagne	*Maritime activities for blue growth*: - Fishery/Aquaculture - Shellfish Farming, Seaweed Farming - Renewable Marine Energies (linked to energy, maritime, port, shipbuilding and metallurgical sectors), integrating corollary issues (maritime safety and security, environment management/engineering, grids, maintenance), - Sustainable exploration of mineral marine resources (R&D related to deep-sea resources (oil, gas and minerals), including engineering, exploration, dismantling activities, so as environmental impact studies, exploration of extreme environments. - Sustainable exploration of marine biological resources and biotechnologies, new schemes of sustainable exploration of living marine resources : fisheries (development and dissemination of knowledge on resources sustainable management, reduction of exploration costs, vessels and crew safety, complementary activities, discards regulation) and aquaculture (domestication of new species, health and safety of production, reduction of environmental impacts, social acceptance of new activities). - Innovative vessels (vessel of the future) of nautical and shipbuilding sectors: integrating reduction of energy consumption, environmental impact, operating costs. Leisure boat with positive environmental impact, configurable according different uses ; modernization of port infrastructures responding to developing activities : logistics, commercial port activities, ship building and repair ; - Innovations responding to maritime safety and security issues (safeguard human life at sea, improvement of surveillance and intervention means through digital and satellite technologies, protection and modernization of port and maritime infrastructures, e-navigation. - Technological improvements for marine sector activities: ICT, biotechnologies, materials, energy storage, modeling, intensive data collection and processing, photonic, sub-marine communications, etc. ICT for marine industries are linked to one of the 7 axis of Brittany S3 ("Technologies for digital society"). Marine biotechnologies are linked to another axis of Brittany S3 (Health and wellbeing for a better quality of life"). Other innovations in the marine sector could be linked to the axis of Brittany S3 "Leading hedge technologies for industrial applications" such as technologies for marine bio-resources valuation, energy networks, maritime security, technology for material adaptation to extreme conditions for advanced (offshore) industries. *Environment, energy and sustainable transportation*: - Management of sea use conflicts - Integrated coastal zone management, - Observation, surveillance and management of coastal/maritime environment, eco-systems and their interactions : innovative tools for marine and coastal ecosystems monitoring, study of interactions between marine, coastal, land environments and atmosphere - Advisory, research and expertise activities : environmental studies for sustainable maritime and coastal planning, research on evolution of natural resources (coastal and marine pollution and quality of waters, ecosystems study, ocean and fisheries ecology, biodiversity management and biodiversity restoration) - Waste and manure management (fisheries and aquaculture) *Social and citizen innovations*: - Sustainable tourism (in coastal areas, based on coastal assets) - Culture and heritage (maritime history and heritage) - Research and education on maritime law - Contribution of maritime third sector (maritime cooperatives) to regional economy *Sustainable and quality food chain*: - Food quality and security, food supplements
	Pays de la Loire	*Maritime industries:* - Green and innovative vessels - Floating structures - Offshore activities - Marine renewable energies

Ireland		- Marine minerals - Maritime infrastructures - Associated services (logistics, finance, insurance and law…) Pays de la Loire also identified 5 specialization areas which are linked to marine matters *Advanced manufacturing:* - New materials, composite materials - Production process efficiency - Product lifecycle management - Factory of the future *Food and bio-resources:* - Marine bio-resources for food applications *Design and cultural and creative industries:* - Design thinking applied to marine activities (shipbuilding…) *Computer science and electronics:* - IT based entrepreneurship - IT adoption by maritime industries (virtual reality…) - Electronics and embedded systems *Therapies of tomorrow and health:* - Marine bio-resources for health applications
	Poitou-Charentes	- Biotechnology - Nautical Industry - Eco-Mobility & Transport - Sustainable Tourism & Eco-Tourism - Renewable Energies & Energy Efficiency - Marine Renewable Energy - Silver Economy
	Scotland	- Energy - Tourism - Life Sciences - Creative Industries - Marine Energy
	Wales	- Ocean energy (off-shore wind, tidal, wave..) - Aquaculture
Portugal	Alentejo	- Blue Economy - Renewable Energy

	Centro	- Tourism
		- Appreciation and efficient use of natural endogenous resources: maritime resources:
		  o Smart coast: monitoring and integrated management of coastal areas
		  o Development of innovative and precision technologies in the fishing industry, fostering quality and food security and the development of new products
		  o Sustainable exploration of mineral marine resources (R&D related to deep-sea resources)
		  o Sustainable aquaculture
		- Blue Biotechnology

	Lisboa e Vale do Tejo	- Tourism - Fisheries, Aquaculture & Fish Industry - Marine Bio-Technology - Ports and Maritime Transport - Research, Technologies and Health Services (Health Tourism) - Renewable Energies
	Norte	- Health & Life Sciences - Territory & Tourism - Maritime Resources & Environment
Ireland	National Strategy	- Marine Renewable Energy - Smart Grids - Sustainable food production and processing

Note: This document was prepared on the basis on the EC INFORMAL NON-PAPER FOR DISCUSSION
"Draft Operational Programmes for European Structural and Investment Funds in the Atlantic Region"