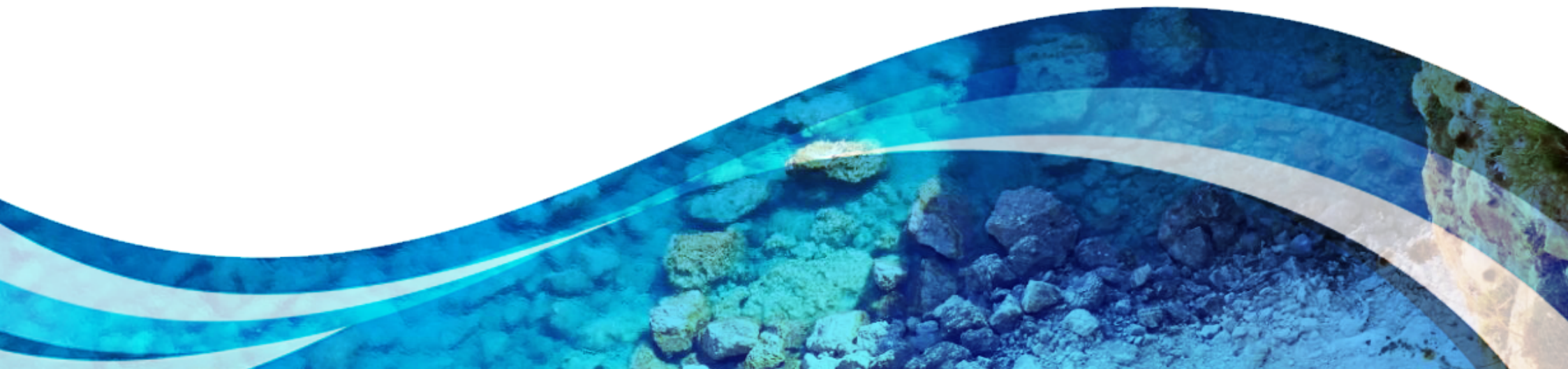




BlueMed Pilot Action For a plastic-free, healthy Mediterranean Sea

Mapping of initiatives – National Hubs SPAIN

[Extract from the DRAFT SUMMARY REPORT, BLUEMED Pilot: For a Plastic-free, Healthy Mediterranean Sea
(Tuesday 12 March 2019, 9:00 – 17:00, Room: CDMA -1/44, Rue du Champ de Mars 21, Brussels, Belgium)]



Spain

In 2015 the Ministry of Fisheries, Agriculture and Environment (MAPAMA) elaborated the **Programme of Measures** on marine litter for the five marine areas in Spain. An expert's workshop on marine litter was organised to discuss the scientific proposal for the programme of measures related to this descriptor, that are here summarized in 4 blocks:

- Measures for the prevention of marine litter with a marine origin
- Measures for the prevention of marine litter with a land origin
- Measures for the removal of marine litter
- Measures on dissemination and social awareness on the challenge of marine litter

Content of the **Monitoring programme** of marine litter in the Spanish Marine Strategies is:

Action	Objectives	Additional info
BM-1: Marine litter in the beaches	This programme aims at counting and characterise the litter found, compare the situation of different Spanish beaches, in order to provide systematic information for the establishment of measures towards the reduction of litter in the marine environment.	
BM-2: Floating litter		
BM-3: Litter on sea floor		
BM-4: Microparticles in water		
BM-5: Microparticles in sediment		

Action	Objectives	Additional info
BM-6: Microparticles in beaches	During 2015 and 2016, with the support of CEDEX, the methodologies for sampling, analysis and monitoring of microplastics in beaches was put in place. The study started in October 2016 with 9 beaches of the Spanish coast.	
BM-7: Citizen Science (additional data)	The Spanish Marine Strategies (EsMarEs) include this important aspect in its monitoring programmes through a harmonized protocol for the data collection on marine litter, though a “card for field work”.	The card is the result of combined work developed in the frame of the interdisciplinary forum on marine litter that MAPAMA runs through the organisation of an Annual Seminar within the Programme of Permanent Seminars of CENEAM.
MT-5: Marine litter in biota	In February 2017 the project <u>INDICIT</u> started with European Commission’s funding, with the main objective of developing the monitoring of marine litter in biota, with special interest in sea turtles as indicators	Improvement of the knowledge for the development of impact indicators at subregional level and quantitative definition of GES (Good Environmental Status). This activity gives the scientific basis and main tools (models and protocols) for the rest of actions.

LIST OF PROJECTS FUNDED BY THE SPANISH NATIONAL PLAN IN THE PERIOD 2015-2018, MANNAGED BY the SPANISH RESEARCH AGENCY (AEI)

Funding source	Area	Project	Coordinator	Duration		Budget in €
AEI	Biotechnology	Emerging contaminants, nanomaterials and micro-plastics in rivers, estuaries and coastal areas: an integrated study	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	01-ene-15	31-dic-17	183920

Funding source	Area	Project	Coordinator	Duration		Budget in €
AEI	Sea	Impact of regulated and emerging pollutants and microplastics in marine ecosystems and establishment of their environmental quality criteria	INSTITUTO ESPAÑOL DE OCEANOGRAFIA (IEO)	01-ene-14	30-sep-17	169400
AEI	Sea	Impact of regulated and emerging pollutants and microplastics in marine ecosystems and establishment of their environmental quality criteria	UNIVERSIDADE DA CORUÑA	01-ene-14	31-dic-16	168190
AEI	Technology	Environmental risk of micro and nanoplastics in wastewater treatment systems and receiving bodies	UNIVERSIDAD DE ALCALA	30-dic-16	29-dic-20	189970
AEI	Technology	Environmental risk of micro and nanoplastics in wastewater treatment systems and receiving bodies	UNIVERSIDAD AUTONOMA DE MADRID	30-dic-16	29-dic-20	188760
AEI	Sea	Emergent pollutants in coastal systems: distribution and biological effects. from lab to field	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	30-dic-16	29-dic-19	192390
AEI	Sea	Environmentally friendly alternatives for polymers and their chemical additives in aquatic environments	UNIVERSIDAD DE VIGO	30-dic-16	29-dic-19	142780
AEI	Sea	Environmentally friendly alternatives for polymers and their chemical additives in aquatic environments; subproject polymeric materials and additives and their degradation	ASOC. DE INVESTIGACION DE MATERIALES PLASTICOS	30-dic-16	29-dic-19	112530
AEI	Sea	Environmentally friendly alternatives for polymers and their chemical additives in aquatic environments. subproject environmental analytical chemistry	UNIVERSIDADE DA CORUÑA	30-dic-16	29-dic-19	173030
AEI	Technology	Microplastics as vectors of emerging contaminants in the terrestrial ecosystem: exposure biomarkers and ecotoxicological impact	UNIVERSIDAD COMPLUTENSE DE MADRID	01-ene-18	31-dic-21	225060
AEI	Technology	Exposome assessment of emerging contaminants in the aquatic environment	UNIVERSIDADE DE SANTIAGO DE COMPOSTELA	01-ene-18	31-dic-20	175450
AEI	Technology	Exposomic assessment of emerging contaminants in the aquatic environment	UNIVERSIDAD DE LAS ISLAS BALEARES	01-ene-18	31-dic-20	173030
AEI	Sea	Aquaculture derived plastics: impacts and effects in marine food webs	INSTITUTO ESPAÑOL DE OCEANOGRAFIA (IEO)	01-ene-18	31-dic-20	165770

Funding source	Area	Project	Coordinator	Duration		Budget in €
AEI	Sea	Microplastics and microcontaminants in the Mediterranean coast: toxicity and environmental and human health impacts	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	01-ene-18	31-dic-20	177870
AEI	Sea	Microplastics and microcontaminants on the Mediterranean coast. toxicity and impact on environment and human health	FUNDACIÓ INSTITUT CATALA DE RECERCA DE L AIGUA	01-ene-18	31-dic-20	159720
AEI	Sea	Influence of microplastics on the transfer and effects of contaminants of emerging concern in marine organisms. ecotoxicological and environmental impact in marine systems	INSTITUTO ESPAÑOL DE OCEANOGRAFIA (IEO)	01-ene-18	31-dic-20	158510
AEI	Technology	Defining the baselines and standards for microplastics analyses in european waters	UNIVERSIDAD DE LAS ISLAS BALEARES	01-jul-18	30-jun-20	17000
AEI	Biotechnology	Defining the baselines and standards for microplastics analyses in European waters	UNIVERSIDADE DA CORUÑA	01-dic-15	31-mar-19	125000
AEI	Biotechnology	Defining the baselines and standards for microplastics analyses in European waters	INSTITUTO ESPAÑOL DE OCEANOGRAFIA (IEO)	01-dic-15	30-nov-18	125000
AEI	Sea	Ecotoxicological effects of microplastics in marine ecosystems: studies with the mussel (mytilus galloprovincialis)	INSTITUTO ESPAÑOL DE OCEANOGRAFIA (IEO)	01-dic-15	31-may-19	100000
AEI	Sea	Ecotoxicological effects of microplastics in marine ecosystems: studies with european sea bass (dicentrarchus labrax)	UNIVERSIDAD DE MURCIA	01-dic-15	30-nov-18	60000
AEI	Sea	Ecotoxicological effects of microplastics in marine ecosystems	UNIVERSIDAD DE VIGO	01-dic-15	31-mar-19	140000
AEI	Technology	Impacts of microplastics in agro-systems and stream environments	FUNDACION IMDEA AGUA	01-abr-17	31-mar-20	135000

SPANISH PARTICIPATION IN JPI OCEANS PROJECTS ON MICROPLASTICS

In 2015, a call on Microplastics was launched under the initiative JPI OCEANS. In this context, the Spanish Research Agency (AEI) funded 2 international cooperation projects in which 5 Spanish institutions received 550.000 €

Acronym	AEI contribution
BASEMAN	250.000 €
EPHEMARE	300.000 €

The AEI plans to fund 2 more projects in the JPI OCEANS call open until February 2019, with a Budget of 400.000€.

SPANISH PARTICIPATION IN PROJECTS FUNDED UNDER HORIZON 2020 ON MARINE LITTER/PLASTICS

BLUE GROWTH		
CLAIM	Cleaning Litter by developing and Aplying Innovative Methods in European Seas	
ES Partners	IKERCONSULTING EUROPEAN AND REGIONAL INNOVATION SOCIEDAD LIMITADA	€ 297 798,38
UTOFIA	Underwater Time Of Flight Image Acquisition system	
ES Partners	FUNDACION AZTI	€ 468 780
Respon-Sea-ble	Sustainable oceans : our collective responsibility, our common interest. Building on real-life knowledge knowledge systems for developing interactive and mutual learning media	
ES Partners	FUNDACION AZTI	€ 219 352,50
SME Instrument		
UPCYCLINGTHEOCEANS	High quality clothes made from marine plastic litter	
	ECOALF, S.L.	€ 50 000

CIRC - Circular Economy		
PlastiCircle	Improvement of the plastic packaging waste chain from a circular economy approach	
ES Partners	INSTITUTO TECNOLOGICO DEL EMBALAJE, TRANSPORTE Y LOGISTICA Coordinator	€ 1 010 750
	FUNDACION DE LA COMUNITAT VALENCIANA PARA LA PROMOCION ESTRATEGICA EL DESARROLLO Y LA INNOVACION URBANA	€ 328 625
	SOCIEDAD ANONIMA AGRICULTORES DE LAVEGA DE VALENCIA	€ 623 070
	INDUSTRIAS TERMOPLASTICAS VALENCIANAS, S.A.	€ 150 850
	Fundacio Knowledge Innovation Market Barcelona	€ 311 250
	ECOEMBALAJES ESPANA, S.A.	€ 294 500
	PICVISA MACHINE VISION SYSTEMS SL	€ 359 625
PolyCE	Post-Consumer High-tech Recycled Polymers for a Circular Economy	
ES Partners	TECNALIA	€ 589 625
	ONA PRODUCT SL	€ 102 427,50
LEIT Leadership in enabling and industrial technologies		
P4SB	From Plastic waste to Plastic value using Pseudomonas putida Synthetic Biology	
ES Partners	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	€ 561 875
	BACMINE SL	€ 684 625
BBI JU - Bio-based Industries Joint Undertaking		
AFTERLIFE	Advanced Filtration TEchnologies for the Recovery and Later conversion of relevant Fractions from wastEwater	
ES Partners	OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL	€ 250 750
	L'UREDERRA, FUNDACION PARA EL DESARROLLO TECNOLOGICO Y SOCIAL	€ 301 250
	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	€ 216 000
	ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO NACIONAL DE LA CONSERVA	€ 199 560
	JAKE SA	€ 93 825
	CITROMIL SL	€ 97 200

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