



**MARLICE 2022**

II International Forum on Marine  
Litter and Circular Economy



# II International Forum on Marine Litter and Circular Economy

18th - 20th May 2022 - Seville (Spain)



**MARLICE 2022**  
II International Forum on  
Marine Litter and Circular Economy  
Seville 18 - 20 May





# INDEX

## 1. ATTENDANCE AND SPEAKER

## 2. SESSIONS

- CONNECTING SEAS RSC: REGIONAL SEAS CONVENTIONS ALLIANCE
- GOVERNANCE AND CIRCULAR ECONOMY FOCUSING ON PLASTICS
- CITIZEN SCIENCE AND MICROPLASTICS
- ROUND TABLE PANEL: "PREVENTION OF MARINE LITTER. EXTENDED PRODUCER RESPONSABILITY ROLE"
- SOLUTIONS FOR PREVENTING AND RECYCLING MARINE LITTER
- MONITORING AND ASSESSMENT
- MARLICENATURA: MEDITERRANEAN SESSION. IMPACTS IN BIODIVERSITY, POLICY AND PREVENTION ACTIONS.
- MARLICENATURA: FISHING FOR LITTER
- SOLUTIONS OF & FOR INDUSTRY TO MITIGATE MICROPLASTICS POLLUTION
- RIVERINE INPUTS OF MARINE LITTER - PART 1
- RIVERINE INPUTS OF MARINE LITTER - PART 2
- OCEAN DECADE- CLEAN OCEANS

## 3. SOCIAL MEDIA

"Hands on circular solutions for healthy oceans"

# 1. ATTENDANCE AND SPEAKERS



240 attendees



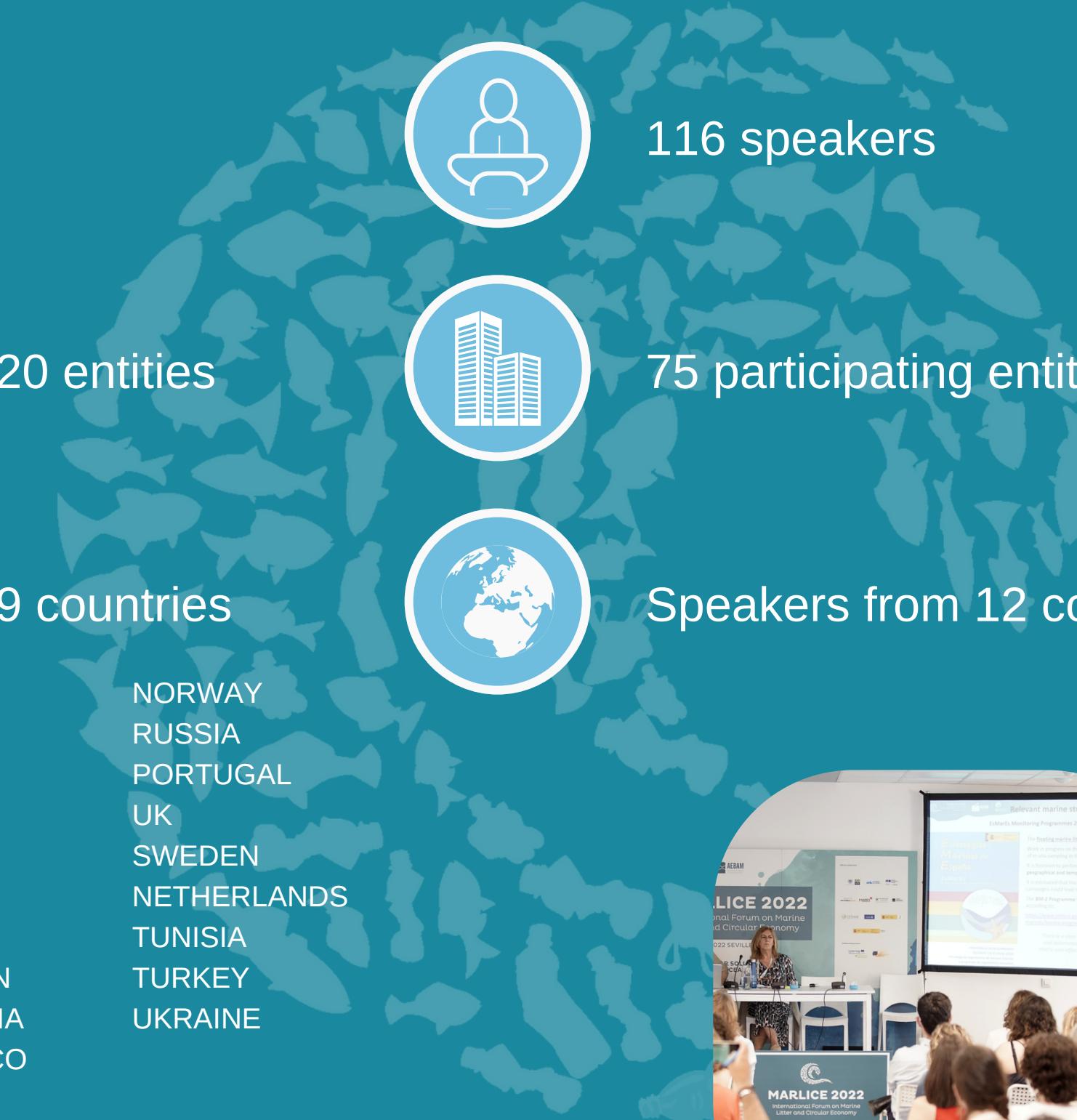
Attendees from 120 entities



Attendees from 29 countries

ALBANIA  
ALGERIA  
ANGOLA  
BELGIUM  
CROATIA  
CYPRUS  
DENMARK  
EGYPT  
SLOVENIA  
SPAIN

FINLAND  
FRANCE  
GREECE  
ICELAND  
IRELAND  
ISRAEL  
ITALY  
LEBANON  
LITHUANIA  
MOROCCO



116 speakers



75 participating entities



Speakers from 12 countries





## 2. SESSIONS

Three parallel sessions were held in different rooms on the following topics: governance, circular economy and innovation, citizen science and conservation. The opening and closing ceremonies were held in the main auditorium, where the forum's key events also took place.

### Sessions

CONNECTING SEAS RSC: REGIONAL SEAS CONVENTIONS ALLIANCE

GOVERNANCE AND CIRCULAR ECONOMY FOCUSING ON PLASTICS

CITIZEN SCIENCE AND MICROPLASTICS

ROUND TABLE PANEL: "PREVENTION OF MARINE LITTER. EXTENDED PRODUCER RESPONSABILITY ROLE"

SOLUTIONS FOR PREVENTING AND RECYCLING MARINE LITTER

MONITORING AND ASSESSMENT

MARLICENATURA: MEDITERRANEAN SESSION. IMPACTS IN BIODIVERSITY, POLICY AND PREVENTION ACTIONS.

MARLICENATURA: FISHING FOR LITTER

SOLUTIONS OF & FOR INDUSTRY TO MITIGATE MICROPLASTICS POLLUTION

RIVERINE INPUTS OF MARINE LITTER - PART 1

RIVERINE INPUTS OF MARINE LITTER - PART 2

OCEAN DECADE- CLEAN OCEANS

And too...

DINAMIC COFFEE PROJECT PRESENTATION SESSION

COFFEE WITH

MARLICE4PEOPLE: MarliceCinema



# CONNECTING SEAS RSC: REGIONAL SEAS CONVENTIONS ALLIANCE

*Connecting Seas* brought together the 4 European Regional Seas Conventions within the framework of the 2nd edition of the International Forum on Marine Litter and Circular Economy - MARLICE 2022 - with two main objectives. On the one hand, to increase visibility of cooperation between the 4 European Regional Seas Conventions and the European Commission, and on the other, to

stimulate debate on the possible role of the Regional Seas Conventions in the context of the new international legally binding act on plastic pollution (including the marine environment) adopted by the UN ENVIRONMENT ASSEMBLY last March.



## CHAIRPERSON

Ms. Itziar Martín

Ministry for Environment and Ecological Transition.

Deputy Director for the Protection of the Sea



## SPEAKERS

- Tatjna Hema - Coordinator of the Mediterranean Action Plan Barcelona Convention
- Rüdiger Stempel - Executive Secretary of the Baltic Marine Environment Protection Commission (Helsinki Commission - HELCOM)
- Dominique Pattinson - Executive Secretary of the Convention for the Protection of the Marine Environment of the North-East Atlantic (OSPAR Convention)
- Irina Makarenko - Pollution Monitoring and Assessment Officer - Commission on the Protection of the Black Sea Permis (Bucharest Convention)
- Silvia Bartolini - EU OSPAR HOD, Head of Unit, Directorate General Environment, Marine Environment & Clean Water Services, European Commission (on-line)

# GOVERNANCE AND CIRCULAR ECONOMY FOCUSING ON PLASTICS



Public administrations, at different regional levels, are committed to fomenting a circular economy and to this end, both legislation and operational programmes have been adopted.

Local governments have shown commitment in terms of both collaboration and coordination in order to achieve better results. The debate served to highlight the problem of political cycles in sustaining a long-term operational strategy.

## Conclusions:

- Vanessa Sarah Salvo - CSIC/AEBAM.
- Pedro Fernández Bautista - Advocacy Committee of the Spanish Marine Litter Association

## CHAIRPERSON

Mr. Pedro Fernández Bautista

MedWaves, the UNEP/MAP Regional Activity Centre for SCP

Project manager



## SPEAKERS

- Magali Outters - Policy Area Team Leader. MedWaves, the UNEP/MAP Regional Activity Centre for SCP.
- Carmen Durán Vizán -Technical Advisor. Subdirectorate General of Circular Economy. Directorate General for Environmental Quality and Assessment. Ministry of Ecological Transition and Demographic Challenge
- David Fernández Guerra - Chief of Cabinet. General Direction for Environmental Quality and Climate Change. Regional Government of Andalusia
- Carlos Javier Diaz Rivero - European Funds Coordinator. Vice-councillor for Climate Change and Ecological Transition. Government of Canarias Island
- Luis Medina-Montoya - Director General for the Environment and Sustainability, Environmental Sustainability Area, Malaga City Council

# CITIZEN SCIENCE AND MICROPLASTICS

Approximately 70 attendees from universities, public administrations, companies and third sector organisations from up to 9 countries across the Atlantic and Mediterranean basins took part in the open session coordinated by Hombre y Territorio for MARLICE 2022, as part of its alliance with Libera. The session focused on the role of citizens in projects related to the study of microplastics.



After a series of presentations introducing studies currently underway in different fields (scientific, technical, associated), a group work session was organised with the aim of evaluating specific criteria that could serve as a reference to improve potential public participation in studies of this type. The high and diverse attendance, in addition to active participation, is a clear example of the interest in this subject from different sectors of society and the need for efficient organisation of such actions. Over the next few days, Hombre y Territorio will continue working on the key agreements reached in each of the 7 working groups.

## Conclusions:

- David León - Asociación Hombre y Territorio.

## CHAIRPERSON

PhD. David León

Hombre y Territorio

Project coordinator



Ms. María Cabrera Fernández

Paisaje Limpio

Project coordinator



## SPEAKERS

- Alicia Mateos Cárdenas - Postdoctoral Researcher-University of Cork
- María Plaza - Technician of the Center for the Study of Ports and Coasts of CEDEX
- David León - Project coordinator - HyT Asociation
- Sara Lizarza - Responsible for citizen science projects in MATER
- María Ballesteros - Head of environment and education in Surfrider Spain

# ROUND TABLE PANEL: "PREVENTION OF MARINE LITTER. EXTENDED PRODUCER RESPONSABILITY ROLE"



During the session, the national and international EPRs of greatest relevance were presented and a range of questions were answered regarding their involvement in efforts to minimise waste abandonment and in particular, marine litter. Following a round of questions from the audience, the possibility of creating a dialogue platform for EPRs was proposed in order to promote the development of a united stance and proposal of measures to prevent the generation of marine litter.

## Conclusions:

- Estíbaliz López-Samaniego - Asociación Vertidos Cero/ AEBAM.
- Vanessa Sarah Salvo - CSIC/AEBAM.

## CHAIRPERSON

### PhD. Vanessa Sarah Salvo



Institut de Ciències del Mar of the Spanish National Research Council (ICM-CSIC)

Institutional & International Relations and Knowledge Transfer Unit ICM-CSIC  
Scientific Director Posidonia Green Project

### PhD. Estíbaliz López-Samaniego



Asociación Vertidos Cero

Project Management

## SPEAKERS

- Monika Romenska - Regulatory and PA Manager. EXPRA
- Gintaras Varnas - General Manager. Užstato Sistemos Administratorius (USAD)
- Julio López - Institutional Relations Manager at Ecoembes
- José María Bermejo - General Manager of Spanish Association Environment Plastics and Agriculture (MAPLA)
- Isabel López-Rivadulla - Director of Communications and Marketing. Spanish Integrated Scrap Tire Management System (SIGNUS)
- Juan Ramón Meléndez - General Director of Asociación Latas de Bebidas
- Iñigo José Nuñez - Fundación Canarias Recicla / Ewaste

# SOLUTIONS FOR PREVENTING AND RECYCLING MARINE LITTER



Plastics floating in the sea are visible to everyone, however it is microplastics that present the biggest danger. The creation and generation of a product until the end of its useful life is referred to as the 'life cycle' of a product; we have been observing and working on what we can do to reduce the environmental impact of products starting with eco-design, through practical use and, finally, in the way they are recycled. At the same time, we have observed new projects using materials that give plastics a second life through reuse and thus avoid polluting the sea.

## Conclusions:

- Miguel Aguado - Environmental communicator, CEO B LEAF

Promotion of labelling and certification: the origin of products made from marine litter needs to be clearly displayed to the consumer. This requires the development of adequate certification and labelling to ensure traceability.

## Conclusions:

- Vanessa Sarah Salvo - CSIC/AEBAM

## CHAIRPERSON

Mr. Miguel Aguado Arnáez



B LEAF

CEO

## SPEAKERS

- José María Fernández Alcalá - Head of circular economy, IHOBE, Agencia Vasca Medio Ambiente
- Juan Ruiz - Public Affairs and Sustainability Manager, Plastics Europe.
- Carmen Ramírez - Mechanical recycling researcher, AIMPLAS
- Juan Moreno Rodríguez - General Secretary, Union of Consumers of Andalusia (UCAUCE)
- Beatriz Arribas Santori - Sustainability Projects Manager, Coca-Cola Europacific Partners España
- Diego Lugagne - Packaging Innovation Manager - Europe, Eurasia & Middle East and Africa (EMEA) R&D - The Coca-Cola Company- Coca-Cola
- Víctor Manuel Pérez Ignacio - CEO, Futuralga
- Carol Blázquez - Head Of Innovation & Sustainability, ECOALF
- Jose Luis Alcaide - President, Asoc Hippocampus - Proyect Plumbum

## MONITORING AND ASSESSMENT



Monitoring systems need to be implemented and coordinated on a global scale across different areas of environmental importance to obtain the best possible information for the fight against marine litter.

Conclusions:

- Marisa Fernández - Coordinadora de Área, CETMAR.

## CHAIRPERSON

Dra. Marisa Fernández Cañamero

 CETMAR

 Coordinadora del área



## SPEAKERS

- Georg Hanke - Centro Común de Investigación de la Comisión Europea, Dirección de Recursos Sostenibles, Unidad de Recursos Hídricos y Marinos.
- Marta Martínez-Gil - Jefa de Área - Subdirección General para la Protección del Mar - Dirección General de la Costa y el Mar. Ministerio para la Transición Ecológica y el Reto Demográfico.
- Manuel Arias - Investigador en Observación Terrestre, Instituto de Ciencias del Mar (ICM-CSIC).
- Jesús Gago - Científico titular, Instituto Español de Oceanografía.
- Carmen Morales - Investigadora, Universidad de Cádiz, España.

# MARLICENATURA: MEDITERRANEAN SESSION. IMPACTS IN BIODIVERSITY, POLICY AND PREVENTION ACTIONS.



Science (Plastic Busters MPA project) warns of the worrying state of marine protected areas, where a much higher concentration of marine litter has been found than the threshold values proposed within policy frameworks.

In regard to concrete actions to prevent marine litter, emphasis was placed on the importance of creating and capitalising on a community to scale up results, learning from previous experiences and reaching sectors of greater influence.

## Conclusions:

- Carolina Perez - Project Officer, MedCities

## CHAIRPERSON

Ms. Carolina Pérez Valverde



MedCities

Project Officer

Mr. Pedro Fernández Bautista



MedWaves, the UNEP/MAP Regional Activity Centre for SCP

Project manager

## SPEAKERS

- Dania Abdul Malak - Senior environmental researcher and Director of ETC-UMA
- Magali Outters - Policy Area Team Leader. MedWaves, the UNEP/MAP Regional Activity Centre for SCP
- Sonsoles San Roman - Communication officer, ETC-UMA
- Cristina Fossi - Professor in Ecology and Ecotoxicology, University of Siena
- Morgana Vighi - MedSeaLitter Project, University of Barcelona
- Olfa Chaieb - Research Associate, Institut National des Sciences et Technologies de la Mer, Tunis (INSTM)
- Christos Ioakeimidis - Associate Programme Management Officer-United Nations Environment Programme (UNEP)
- David León - Hombre y Territorio asociation / Intemares-ArtesPerdidos
- Tupa Rangel, Save the Med Foundation, Balearic Islands
- Anastasia Charitou, iSea NGO, Greece
- Gloria García Hoyo, Cabo de Gata-Níjar Natural Park-Geopark, Spain
- Mercedes Muñoz Cañas, IUCN Nature Conservation & Food Systems Manager, Spain

# MARLICENATURA: FISHING FOR LITTER



The willingness of all participants to collaborate in addition to their extensive experience puts us on the right track to develop a diverse and cohesive national scheme for the 'fishing' of marine litter.

Litter fishing 2.0: we should not stop at the mere collection of litter, moving forward instead with the valorisation of options to make litter fishing a circular initiative.

## Conclusions:

- Marta Martínez Gil - Head of Area - Subdirectorate General for Sea Protection - Directorate General for the Coast and the Sea. Ministry for Ecological Transition and the Demographic Challenge. Spain

## CHAIRPERSON

Ms. Marta Martínez-Gil Pardo de Vera

Ministry for Ecological Transition and the Demographic Challenge

Head of Area - Subdirectorate General for Sea Protection - Directorate General for the Coast and the Sea



## SPEAKERS

- Javier Remiro Perlado - Coordinator of the Blue Economy and Employment area. FUNDACIÓN BIODIVERSIDAD
- Margarita Pérez Martín - Technical Advisor. Directorate General for Fisheries. Regional Government of Andalusia
- Arabelle Bentley - Executive secretariat. KIMO INTERNATIONAL
- Marta Martínez Gil - Head of Area - Subdirectorate General for Sea Protection - Directorate General for the Coast and the Sea. Ministry for Ecological Transition and the Demographic Challenge. Spain
- Luis Gómez - Technician in the Department of Control and Management of Marine Environment and Resources.. CETMAR
- Eve Galimany - Researcher at ICATMAR (Catalan Institute for Ocean Governance Research)/ICM-CSIC (Institute of Marine Sciences Research)

# SOLUTIONS OF & FOR INDUSTRY TO MITIGATE MICROPLASTICS POLLUTION

Innovation. Building bridges between research and industry in the search for solutions to mitigate microplastic pollution.

Definitions. Cohesive definitions and sampling methodologies are essential in order to correctly assess the magnitude of the problem in different areas of environmental importance and



subsequently propose solutions to microplastic pollution.

Conclusions:

- Vanessa Sarah Salvo - CSIC/AEBAM.

Promote the development of cohesive definitions, sampling and monitoring protocols in addition to risk assessments for microplastics.

Promote research on microplastics in different areas of environmental importance through well-coordinated local and regional programmes.

Promote the inclusion of technologies facilitating the reduction/removal of microplastics by micro-organism biodegradation in the composting phase of sewage sludge.

Promote the development and scaling up of enzymatic biodegradation, capture of microplastics in washing machines and improved fabric manufacturing technologies that release less microfibres into the environment.

Conclusions:

- Juan Ruiz - Public Affairs and Sustainability Manager, Plastics Europe/AEBAM.

## CHAIRPERSON

Mr. Juan María Ruiz Alarma

Plastics Europe

Public Affairs and Sustainability Manager



## SPEAKERS

- Roberto Rosal - Professor of Chemical Engineering, University of Alcalá
- Camilla Carteny- Microplastics Technical Manager, Plastics Europe
- Pablo Ferrero - Researcher in Chemical Recycling Group, AIMPLAS
- Francesco Colizzi - Investigador, Intitute of Marine Sciences, ICM-CSIC
- Belén Ramos - Sustainability Project Manager, Organization of Consumers and Users (OCU)
- Carol Blázquez - Head Of Innovation & Sustainability, ECOALF

# RIVERINE INPUTS OF MARINE LITTER - PART 1

The integration and coordination of litter monitoring between freshwater (rivers and lakes) and marine environments is at a very early stage and there has been little interaction between the authorities involved. This presents us with a good opportunity for developing methodologies that integrate both environments and produce comparable results. Solid communication and coordination between the authorities in charge of these environments is essential for the success of such investigations, the Water Framework



Directive and the Marine Strategy Framework Directive being of particular importance.

In terms of technological solutions: we can observe that a range of projects and technologies are being developed that have the potential to make a truly positive impact on the reduction of waste that reaches our rivers and seas. It is clear that private companies are acutely aware of the problem of waste for various reasons, including economic incentives, but also in order to better protect the environment. The managers of wastewater and sewage management systems have been very critical of the need to better implement regulations and raise public awareness in order to avoid waste-management problems, as with the issue of wet wipes.

Conclusions:

- Daniel González - Postdoctoral Researcher Dept. Biology University of Cádiz (UCA)

## CHAIRPERSON

PhD. Daniel González Fernández

Department of Biology.  
University of Cádiz (UCA)

Research Fellow



## SPEAKERS

- Christos Ioakeimidis - Associate Programme Management Officer-United Nations Environment Programme (UNEP).
- Pilar Zorzo - Technician of the Marine Environment Directorate of the Ports and Coasts Study Centre of CEDEX.
- Cristina González Ruano - Head of Service of the General Sub-Directorate for Water Protection and Risk Management of the DGA-MITERD
- Ignasi Mateo - Project manager. ARC-SCP/RAC (Catalan Waste Agency-Regional Activity Centre for Sustainable Consumption and Production)
- Rafael María Lloret Salinas - Water/Wastewater Engineer, GO – Global Omnium
- Miguel Ángel Doval - Responsible for Dumping Inspection. EMASESA, commission V of AEAS.
- José Molina - Head of the Engineering and Innovation Area and Water and Sewerage Unit. EMATSA (Empresa Municipal Mixta de Aguas de Tarragona).
- Antonio Ramírez - Technician AEOPAS (Spanish Association of Public Water Supply and Sewerage Operators)

# RIVERINE INPUTS OF MARINE LITTER - PART 1

## PART 1.1.

- 1) Successful coordination between MSFD and WFD is still pending.
- 2) Policy integration, easy to establish, difficult to implement.
- 3) Lack of coordination between legislation concerning protection of coasts and river basins with regard to the monitoring of riverine inputs of marine litter.
- 4) The investigations carried out in marine litter monitoring programmes should be used to monitor



riverine litter.

- 5) A strategy for combating riverine litter should be included in river basin management plans.
- 6) The planned revision of the WFD could include microplastics as emerging pollutants.
- 7) On a Mediterranean-wide level (UNEA/MAP), the Integrated Monitoring and Assessment Programme (IMAP) does not include specific indicators for marine litter inputs regarding rivers.
- 8) A draft guideline for the sampling of marine litter inputs into rivers is due to be discussed in the near future within the UNEA/MAP marine litter monitoring group.

## PART 1.2.

- 1) The development of a strategy for combating marine litter in river basins could be useful.
- 2) Wet wipes and other types of waste being flushed down toilets constitute a problem for stormwater and wastewater management systems.

3) Wet wipe manufacturers need to be more involved in resolving this issue. The wipes' labelling does not help the problem, often generating confusion among members of the public (debate between the demand created by large corporations and citizen responsibility in regard to solving the problem).

- 4) Relatively cheap and easy to install systems for the retention of solids are available. However, prevention is always the best solution.
- 5) The cost of removal and management of waste in stormwater and wastewater management systems must be highlighted with greater clarity to members of the public.
- 6) Manufacturers should be involved in and finance campaigns to raise awareness in addition to waste management.

## Conclusions:

- Ignasi Mateo – ARC-SCP/RAC (Catalan Waste Agency-Regional Activity Centre for Sustainable Consumption and Production)

# RIVERINE INPUTS OF MARINE LITTER - PART 2

## 1. Monitoring:

- Coordination of protocols – with a standardised format and a common database – is needed.
- Hydrological plans must include specialised staff and promote riverine waste strategies.
- A coordinating entity with trained staff is needed to provide rapid responses and speed up permits for river monitoring.

## 2. Origin of riverine inputs:

- The origin of riverine waste is anthropogenic and the different contributors to contamination must

assume their responsibility (personal responsibility)

- A change of mentality is needed: from a linear to a circular economy.

- Training, regulation and voluntary commitment on behalf of companies are some of the ways in which the origin of waste can be detected and prevented at source.

## 3. Measures:

- Different measures are required for micro or macro-plastics.
- The cost of maintenance and installation should be taken into account prior to installation, in addition to retention capacity and volume.
- The cost of measures should be demonstrated with greater clarity to members of the public in order to raise awareness and increase knowledge regarding the issue.
- The producer must provide correct and clear information concerning the management of its product when it becomes waste.
- The producer should be required to participate in the implementation of mitigation, prevention and awareness raising measures.

## Conclusions:

- Ignasi Mateo – ARC-SCP/RAC (Catalan Waste Agency-Regional Activity Centre for Sustainable Consumption and Production)



## CHAIRPERSON

Mr. Ignasi Mateo Rodríguez

ARC-SCP/RAC (Catalan Waste Agency-Regional Activity Centre for Sustainable Consumption and Production)  
Project manager



## SPEAKERS

- Christos Ioakeimidis - Associate Programme Management Officer-Programa de las Naciones Unidas para el Medio Ambiente (UNEP)
- Francisco Javier Bayo Bernal - Professor and Secretary of the Department of Chemical and Environmental Engineering of the Polytechnic University of Cartagena (UPCT)
- Estíbaliz López-Samaniego - AEBAM Research Member
- Jordi Oliva - Co-founder & Programme Coordinator Good Karma Projects
- Ramiro Cercós - CEO PSP Water Engineering
- David Barquet - Technical Director of TecnoConverting Engineering
- Anna Llopard-Mascaró - Environmental Service and External Relations Technician. Barcelona Ciclo del Agua SA (BCASA)
- Josep Garriga - Head of Inspection and Cleaning Service. Barcelona Ciclo del Agua SA (BCASA)
- María Plaza (CEDEX)
- Ignasi Mateo (SCP/RAC / AEBAM).

# OCEAN DECADE- CLEAN OCEANS



The Ocean Cities programme is preparing a manifesto on the positioning of coastal cities in regard to the UNEA global treaty. Entitled "*Manifesto Ocean Cities toward the global treaty against plastic pollution*", it is due to be presented at the next session of the United Nations Environment Assembly to be held in Lisbon at the end of June.

## Conclusions:

- Vanessa Sarah Salvo - ICM CSIC - Posidonia Green Project

## CHAIRPERSON

PhD. Vanessa Sarah Salvo

 Institut de Ciències del Mar of the Spanish National Research Council (ICM-CSIC)

 Institutional & International Relations and Knowledge Transfer Unit ICM-CSIC Scientific Director Posidonia Green Project

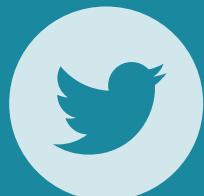


## SPEAKERS

- Vanessa Sarah Salvo - ICM CSIC - Posidonia Green Project
- Josep Lluis Pelegrí - Director ICM-CSIC
- Andrés del Castillo - CIEL Senior Attorney for CIEL's Environmental Health Program
- Magali Outters - Policy Area Team Leader. MedWaves, the UNEP/MAP Regional Activity Centre for SCP
- Juan Ruiz - Sustainability and Public Affairs Manager. Plastics Europe
- Josep Canals Molina - General Secretary Medcities
- Anna Llopart-Mascaró Bassols - Barcelona Cicle de l'Aigua - Barcelona Local Council
- Stefania Gorbi - Marche Polytechnic University (IT) – Ancona Local Council (IT)
- Jelka Tepšić - Deputy Mayor City of Dubrovnik

### 3. SOCIAL MEDIA

19.8K impressions  
127 tweets  
5,5% engagement rate  
71 retweets without comments  
443 Likes  
76 answers



#MARLICE2022  
< 400 tweets  
< 70 posts



6.143 impressions  
Accounts reached 241  
Accounts engaged 36  
8 posts  
74 stories  
76 interactions



2.635 impressions  
186 views  
58 reactions  
13 posts

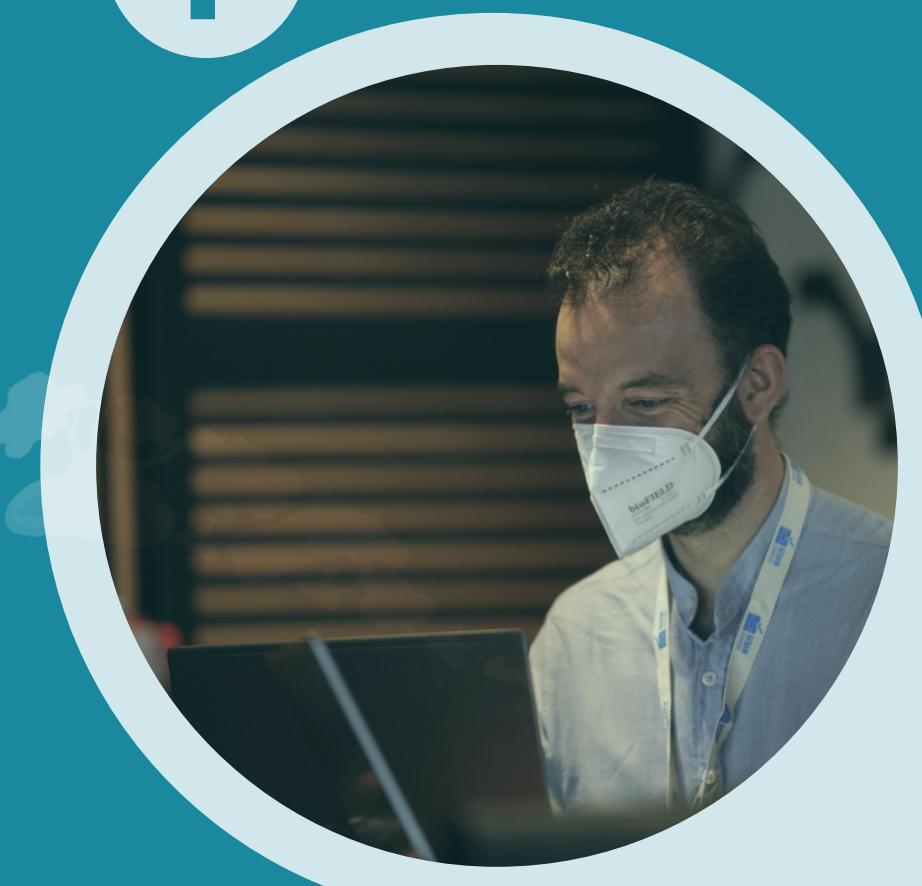


Facebook reach 300  
9 posts  
37 stories



ORIGINAL TWEETS ?	Tweets
@basurasmarinias AEBAM Basuras ...	25
@Vertidos_Cero Vertidos Cero	14
@MEDCommunity3_2 Mediterranean Bi...	11
@surfriderespana Surfrider España	8
@Pepbogota Josep Canals Mol...	8

RETWEETERS ?	Retweets
@Plasticsimpact Plastics impact ca...	42
@basurasmarinias AEBAM Basuras ...	15
@surfriderespana Surfrider España	11
@MedWaves_Centre MedWaves	11
@MEDCommunity3_2 Mediterranean Bi...	9



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