

CLEANATLANTIC CONFERENCE

Vigo, 21st June

09.00 – 16.30 h
(UTC+2h00, Madrid, Brussels)

The CleanAtlantic Knowledge Tool

Raquel Diez, CETMAR

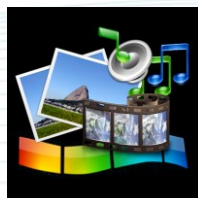
UNIVERSE OF KNOWLEDGE ON MARINE LITTER

European and national
R&D projects



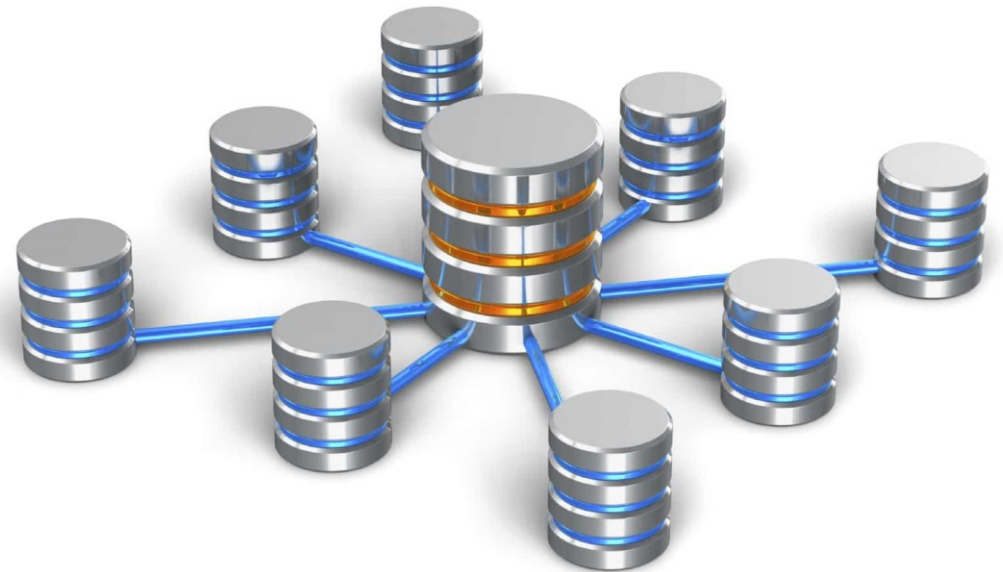
European, national
Organisations

Expanding every minute...



MARINE LITTER KNOWLEDGE DATABASE

- ✓ *Compile data*
- ✓ *Organise and classify knowledge*
- ✓ *Facilitate searching and filtering*
- ✓ *Facilitate access to data through a user-friendly interface*
- ✓ *Supported by transnational cooperation*



METHODOLOGY

IDENTIFICATION COMPILATION

SOURCES OF INFORMATION

- ✓ International, EU & (CA countries)
- ✓ Key Organisations: european, international, regional, national (CA countries)

ANALYSIS CLASSIFICATION

MARINE LITTER RESOURCES

AREAS OF KNOWLEDGE



RESOURCE TYPES

Reports	Other
Scientific publication	Book / review
Protocols / guidelines	Database
Multimedia	Apps / software
Dissemination materials	Policy brief
Educational packs / training activity / learning module	Case studies
Services / tools / models	Equipment / technology
Best practices	

VALIDATION

CONTACT PROJECTS & ORGS

- ✓ Get approval
- ✓ Review, complete, correct, add information

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COLLECTION CRITERIA

Significant, but not fully comprehensive, picture of the existing knowledge

For European and national R&D projects

- Finalised and ongoing projects
- Results publicly available
- Results focused on marine litter
- Languages of the CleanAtlantic countries (EN, FR, ES, PT)

For International, European and national organisations:

- Representative sample of relevant organisations
- Prioritise results relevant for the CA project purposes

THE CLEANATLANTIC KNOWLEDGE TOOL IN NUMBERS



210

R & D PROJECTS

European and national (CA countries)



120

ORGANISATIONS

International, Regional, European and
national (CA countries)



981

RESOURCES

16 Categories, 15 resource types

CleanAtlantic KNOWLEDGE TOOL

Welcome to CleanAtlantic Knowledge Tool

User-friendly access to an inventory of marine litter resources generated in the frame of research projects or by specialised organisations [Read more...](#)



Projects

Inventory of relevant european and national research and cooperation projects on marine litter



Organisations

Inventory of key organisations at international, european and national level working on marine litter and their main resources



Resources

Inventory of resources compiled from projects and organisations dealing with marine litter

Contact

Please fill in the contact form



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Dissemination and promotion of the CleanAtlantic KT

CleanAtlantic Knowledge Tool

The CleanAtlantic Knowledge Tool is an online repository managed by Centro Tecnológico del Mar – Fundación CETMAR, that compiles marine research and technical resources focused on marine litter sources, impacts, monitoring and on prevention and mitigation measures.

Background

There is a wealth of European and national R&D projects and organizations that have focused their activity on marine litter, however their resources and outputs are often not easily accessible.

The CleanAtlantic Knowledge Tool addresses this issue by identifying existing knowledge and by providing user-friendly access to it.

Sources of information

EU and national research and cooperation projects addressing marine litter

Key EU & national organizations in the CleanAtlantic countries working in the field of environmental protection

Methodology

CleanAtlantic aims at showing a significant, but not fully comprehensive, picture of the existing marine litter knowledge at European and national level. Projects and Organizations selected were included in the database and further investigated for the identification of marine litter resources.

1

2

3

4

5

Search and collection of data from projects and organizations

Analysis and identification of marine litter outputs and results

Classification in 16 marine litter thematic areas or topics

Validation process

Publication in the online database

Classification criteria:

R&D Projects

- Projects with results publicly available
- Show a representative sample of marine litter results obtained in the project
- Only resources in English, French, Portuguese or Spanish

Organizations

- A representative sample of organizations working in marine litter at European and international level and in the CleanAtlantic countries
- Prioritize resources useful for the CleanAtlantic purposes but covering all marine litter topics.

Classification of resources

Types of resources

Resources compiled were classified into 16 areas of knowledge and according to 15 types of resources

Protocols & guidelines

Best practices

Equipment / Technology

Dissemination materials

Case studies

Apps/Software

Policy brief

Book / Review

Other

Scientific publications

Databases

Services / Tools

Reports

Multimedia

Areas of knowledge

Awareness

Bioplastics

Fishing for litter

Impact, reduction & retrieval of ALDFG

Modelling of marine litter

Toxicity & impact of meso & macro litter

Training & Education

Circular economy & recycling

Cleaning the marine environment

Mapping of marine litter

Monitoring of marine litter

Microplastics

Policy, governance & management

Socioeconomic analysis & impact

Waste presentation & management from fishing, aquaculture & ports

Waste prevention & management from land-based sources

Functionalities

Search engines

- Perform simple and advanced queries
- Filter results of your queries and create graphics
- Export data and inventories in multiple formats

Daily verification of links

- The link verification tool explores the database on a daily basis and informs about the presence of broken links.
- Check and download the latest version of available resources (following a permission request to owners)
- This functionality allows the database to become a centralized repository of marine litter knowledge that is kept up-to-date and that provides verified and updated information.

Please contact us for further information: cleanatlantic@cetmar.org

This project is co-financed by the European Regional Development Fund through the Interreg Atlantic Area Programme. This leaflet reflects the results of the CleanAtlantic project, and the European Commission cannot be held responsible for any use which may be made of the information contained here.

Interreg Atlantic Area
European Regional Development Fund

EUROPEAN UNION

Clean Atlantic

Dissemination and promotion of the CleanAtlantic KT

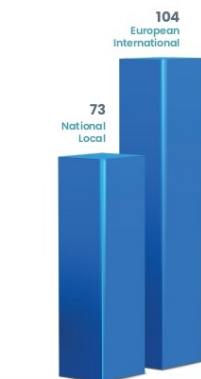
The database in numbers

R&D Projects

The database currently stores information on **177 R&D projects** at European and national level (CleanAtlantic countries):

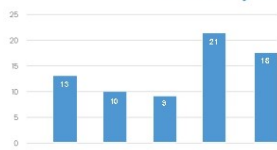
- 104 were funded by European programmes such as INTERREG, FP, H2020, etc.
- 73 projects were focused on the local and the national scale, in France, Ireland, Portugal, Spain and the United Kingdom

European funding programmes	Projects
INTERREG V	28
FP7	13
LIFE	13
H2020	10
EMFF/EMFA	10
INTERREG IV	7
JPI-OCEANS	5
O ENVIRONMENT	33
PRIVATE FOUNDATIONS	1
INTERREG III	1
CIP-Eco Innovation	1
EEA GRANTS	1
JPI-WATER	1
ESA Funding programme	1
BALTICSEA2020	1
GEF & World Bank	1
Other programmes	5



R&D projects at European and national level (CleanAtlantic countries)

National Projects

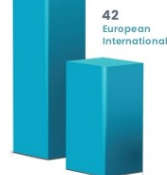


Number of European/national projects



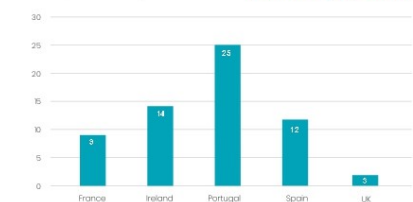
Organizations

- A total of 105 organizations were identified at international, regional, national and local level in the CleanAtlantic countries.
- Out of these, 63 organizations are working at a national or local scale in France, Ireland, Portugal, Spain, and the UK. (80%).



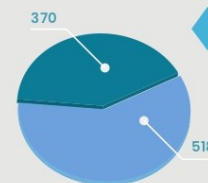
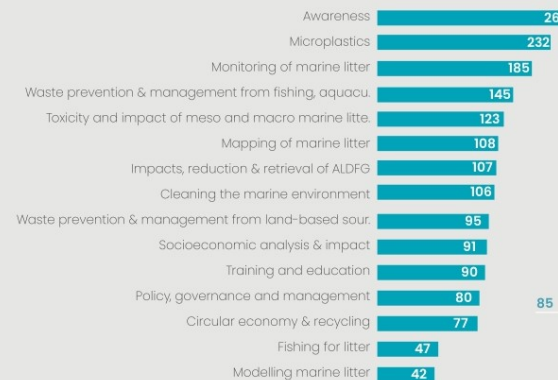
organizations were identified at international, regional, national and local level in the CleanAtlantic countries.

National organisations



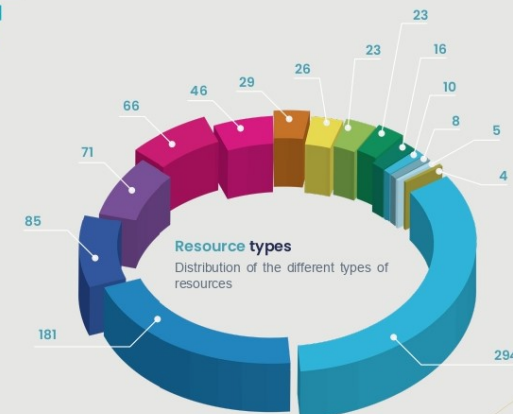
Marine litter resources

More than **900 resources** coming from R&D projects and key organisations working in the field of marine litter



Resources

● Projects ● Organisations



Resource types

Distribution of the different types of resources

- Reports
- Scientific publication
- Protocols / guidelines
- Multimedia
- Dissemination materials
- Best practices
- Educational packs / training activity / learning module
- Services / tools / models Other
- Book / review
- Database
- Apps / software
- Policy brief
- Case studies
- Equipment / technology

Soon available on the website clicking on CleanAtlantic Knowledge Tool

The screenshot displays the CleanAtlantic website. At the top left, the logos for Interreg Atlantic Area, the European Union, and CleanAtlantic are visible. The navigation menu includes links for PROJECT, RESULTS, MAPS / DATABASES (which is highlighted with a dropdown menu), COMMUNICATION, NEWS, EVENTS, and CONTACT. The dropdown menu for MAPS / DATABASES lists three options: CleanAtlantic Initiatives database, CleanAtlantic Knowledge Tool, and Marine Litter Viewer. The main banner features a large image of a fish underwater with the text 'Tackling Marine Litter in the Atlantic Area' and a play button icon. Below the banner, there are three circular icons representing different sections: PROJECT (document icon), WORK PACKAGES (gears icon), and CONSORTIUM (person and document icon). Each icon is followed by its respective section title and a brief description. The PROJECT section states that CleanAtlantic aims to protect biodiversity and ecosystem services in the Atlantic Area by improving capabilities to monitor, prevent and... The WORK PACKAGES section describes the main CleanAtlantic working streams, detailing their specific objectives, activities and expected results. The CONSORTIUM section lists project partner institutions and associated partners, including a general description of each institution, staff involved... The bottom left corner shows the URL knowledgegetool.cleanatlantic.eu. The bottom right corner features the CleanAtlantic logo.

Interreg Atlantic Area
European Regional Development Fund
EUROPEAN UNION

CleanAtlantic

PROJECT RESULTS MAPS / DATABASES COMMUNICATION NEWS EVENTS CONTACT

CleanAtlantic Initiatives database
CleanAtlantic Knowledge Tool
Marine Litter Viewer

Tackling Marine Litter in the Atlantic Area

PROJECT
CleanAtlantic aims to protect biodiversity and ecosystem services in the Atlantic Area by improving capabilities to monitor, prevent and

WORK PACKAGES
This section describes the main CleanAtlantic working streams, detailing their specific objectives, activities and expected results

CONSORTIUM
List of project partner institutions and associated partners, including a general description of each institution, staff involved

knowledgegetool.cleanatlantic.eu

CleanAtlantic

Facilitate Access to the Project results

Version 1 – Outputs of the 1st phase of the Project – Version 2 updated with all results soon available

CleanAtlantic

Tackling marine litter
in the Atlantic Area



CleanAtlantic is an Interreg Atlantic Area funded project that aims to protect biodiversity and ecosystem services in the Atlantic Area by improving capabilities to monitor, prevent and remove marine litter. The project also contributes to raise awareness and change attitudes among stakeholders and to improve marine litter managing systems.

CleanAtlantic run from January 2017 to June 2023. Here you can find a list of the project outputs.

To learn more about the project, please visit www.cleanatlantic.eu

Consortium

Project Partners



Associated Partners



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Project Coordination Team
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Instagram @cleanatlanticproject
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MARINE LITTER ASSESSMENT

CleanAtlantic partners have gathered and assessed data, knowledge and gaps regarding marine litter in the Atlantic Area, and identified and mapped key stakeholders and associated initiatives.

MAPS/DATABASES

IEO (2021) Mariner Litter Viewer

Publications

Gago, J., Booth, A.M., Tiller, R., Maes, T., Larreta, J. (2020). Microplastics Pollution and Regulation. In: Rocha-Santos, T., Costa, M., Mouneyrac, C. (eds) Handbook of Microplastics in the Environment. Springer, Cham.

García-Alegre A, Román-Marcote E, Gago J, González-Nuevo G, Sacau M, Durán Muñoz P. (2020) Seabed litter distribution in the high seas of the Flemish Pass area (NW Atlantic). Scientia Marina, 84(1):93-101.

Amia Mendoza, Juan Luis Osa, Oihane C. Basurko, Anna Rubio, María Santos, Jesús Gago, François Galgani, Cristina Peña-Rodríguez (2020) Microplastics in the Bay of Biscay: An overview, Marine Pollution Bulletin, Volume 153, 110996, ISSN 0025-326X.

REPORTS

CEDRE (2020) Overview of marine litter status in the Atlantic Area: beach litter
IEO (2020) Assessment of seabed litter data recorded by scientific observers onboard fishing vessels
IEO (2020) Assessment between trawl gears baka and GOV for the study of seabed litter

CEDRE (2021) Identification of the initiatives, measures and actions to reduce the presence of litter in the marine environment

CETMAR (2021) Pilot action to investigate the presence of seafloor litter in the Ria de Vigo by using a modified trawling fishing gear coupled with a video recording system.

IFREMER (2021) Spatial and temporal variability in floating litter in North Sea / English Channel and Bay of Biscay / Celtic Sea 2015-2020.

IFREMER (2021) Development of sustainable tools (Database and software) for Marine Litter Data management

IEO (2021) Overview of the marine litter status in the Atlantic Area: beach, floating and seabed litter

IEO (2021) Overview of the marine litter status in the Atlantic Area: floating litter

MONITORING THE STATE OF MARINE LITTER

The objective of this working stream was to reinforce and support harmonized monitoring of marine litter in the framework of the MSFD. To do so, CleanAtlantic has built interfaces and applications to collect data, has reviewed and improved monitoring protocols and developed tools to monitor the distribution and abundance of marine litter.

APPS

ARDITI (2021) Floating Litter Reporter: facilitating litter monitoring for maritime stakeholders

CEFAS (2021) Seafloor litter App for CEFAS Scientist

INTECMAR (2020) Marine litter LOC-app

CONFERENCES

Fronkova L. (2019) What Is the Potential of Satellite Data in Mapping Plastic Litter Hotspots? Atlantic from Space Workshop, Southampton, UK. 23-25 January 2019

REPORTS

ARDITI (2021) Monitoring the presence of marine litter in the marine environment

IEO (2021) Overview of the work carried out in CleanAtlantic on improving marine litter monitoring: WP 5.2.1 - Improving methods for marine litter monitoring in the Atlantic Area: seabed, floating and coastal litter; WP 5.2.2 - New tools for the monitoring of marine litter

IEO (2021) Optimized protocol and template for monitoring floating macroplastic by scientific observers onboard research vessels

IEO (2021) Monitoring floating microlitter in offshore waters by manta-trawl (collaboration with IFADO project)

IFREMER (2021) Spatial and temporal variability in floating litter in North Sea / English Channel and Bay of Biscay / Celtic Sea 2015-2020

IFREMER (2021) Development of sustainable tools (Database and software) for Marine Litter Data management

MODELLING MARINE LITTER

Through this working stream partners produced regional maps of marine litter and hotspots of floating litter. These maps were based on mapping the circulation of floating masses of marine litter and the role of prevailing currents and winds. Hotspots and accumulation of marine litter in coastal areas were also identified.

REPORTS

INTECMAR (2021) Distribution of marine litter along the Ria de Arousa coastline using modelling and mapping

INTECMAR (2020) Guide for shoreline segmentation in buffers using QGIS

SOFTWARE

IST & USC (2021) MOHID Lagrangian Tool: Software necessary to include marine litter processes in an open source Lagrangian transport tool

PUBLICATIONS

de Pablo, H., Sobrinho, J., Garaboa-Paz, D., Fonteles, C., Neves, R., & Gaspar, M. B. (2022). The Influence of the River Discharge on Residence Time, Exposure Time and Integrated Water Fractions for the Tagus Estuary (Portugal). Frontiers in Marine Science.

Cloux, S., Allen-Perkins, S., de Pablo, H., Garaboa-Paz, D., Montero, P., Pérez Muñuzuri, V. (2022) Validation of a Lagrangian model for large-scale macroplastic tracer transport using mussel-peg in NW Spain (Ria de Arousa). Science of The Total Environment, 822: 153338.

Cardoso C., Galdeira R.M.A. (2021) Modelling the Exposure of the Macaronesia Islands (NE Atlantic) to Marine Plastic Pollution, Frontiers in Marine Science, 8.

Pereiro, D., Souto, C., Gago, J. (2019) Dynamics of floating marine debris in the northern Iberian waters: A model approach, Journal of Sea Research, 144: 57-66.

CONFERENCES

Pereiro Rodríguez, D., Souto Torres, C., Gago Piñeiro, J. (2018) Dynamics of floating marine debris in the northern Iberian waters: A model approach. MICRO 2018, Fate and Impact of Microplastics: Knowledge, Actions and Solutions. Lanzarote, 19-23 November 2018.

Cloux González S., Garaboa Paz A., Perez Muñuzuri V. (2019) Marine litter modelling and hotspots detection in the Atlantic Area. Atlantic from Space Workshop, Southampton, UK. 23-25 January 2019.

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Gracias!

Thank You!