



Working with the Aquaculture sector to improve Marine Litter management.

Online Webinar • December 11th, 2020



Preventive measures for averting the discarding of litter in the marine environment from the aquaculture industry





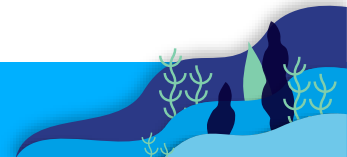
PROJECT PROFILE

EASME-EMFF funded project

Duration: **01/01/2019 – 31/12/2020**

7 partners from 6 different countries

3 Learning Labs





Who?



GEONARDO • SME, Hungary



European Centre for Information on
Marine Science and Technology •
Non-profit organisation, Portugal



Flanders Marine Institute •
Non-profit organisation,
Belgium



sustainable projects
GmbH • SME, Germany



Instituto Español de Oceanografía •
Public body, Spain



Regional Fund for Science and
Technology • Public body, Portugal



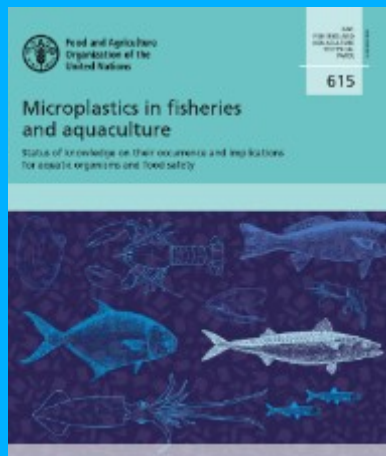
National Sea Centre in Boulogne-
sur-Mer • Local public
enterprise, France



Why AQUA-LIT?

“There are no global estimates of the amount of plastic waste generated by the fisheries and aquaculture sector.”

FAO, technical paper 615, 2017



“Aquaculture is expected to be the sector that meets future demand for food, predicted to rise by 40 percent by 2030”

The State of World Fisheries and Aquaculture 2018





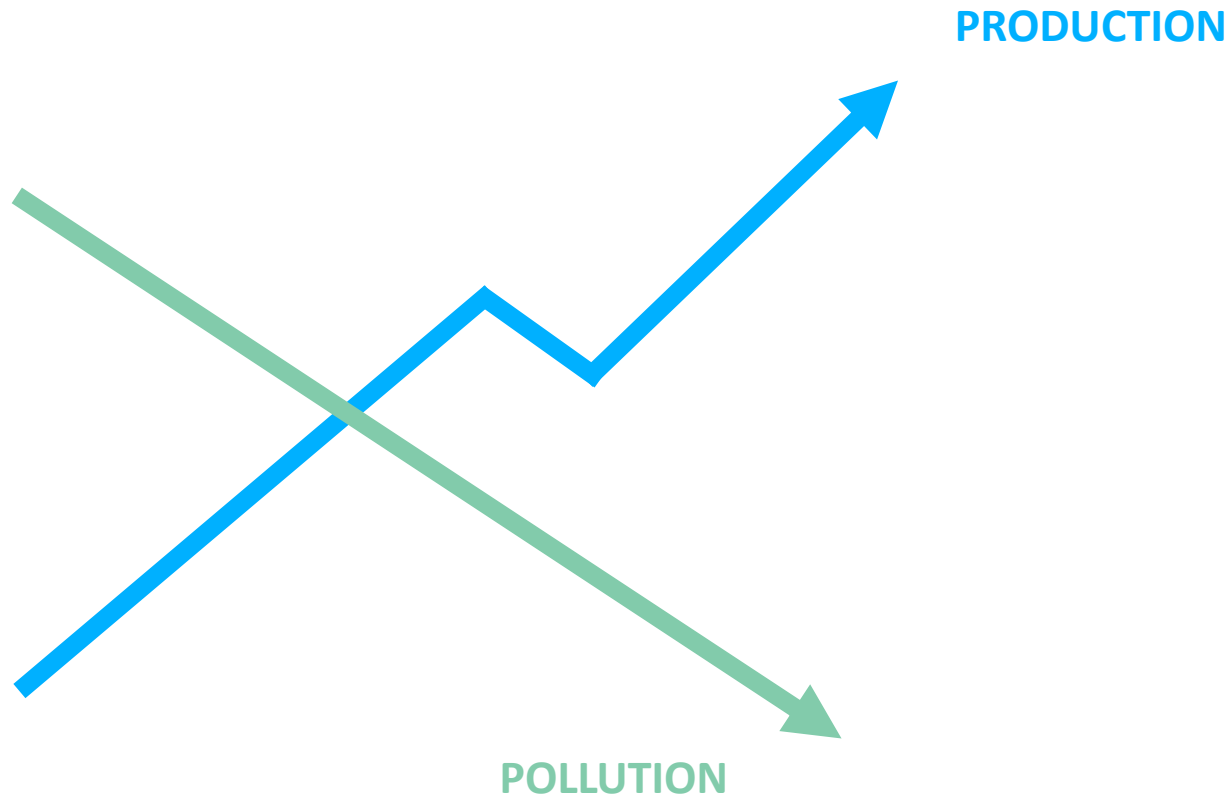
Why AQUA-LIT?

AQUA-LIT thus aims at **increasing the understanding, awareness and availability of solutions that tackle marine littering**, so the increase on aquaculture production doesn't imply an increase on marine littering.





Put simple





Where?

North Sea



Baltic Sea

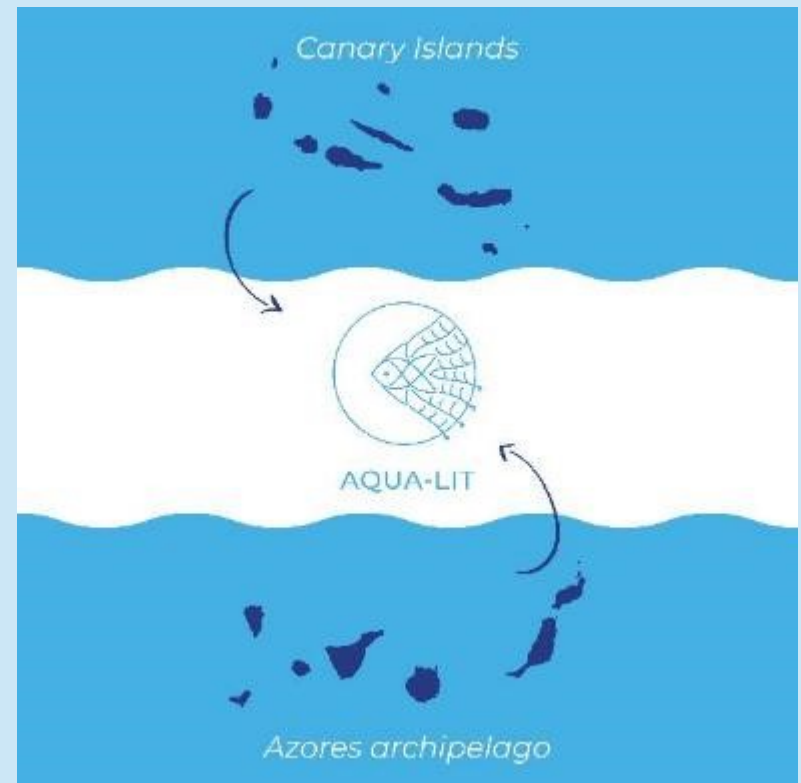


**Mediterranean
Sea**

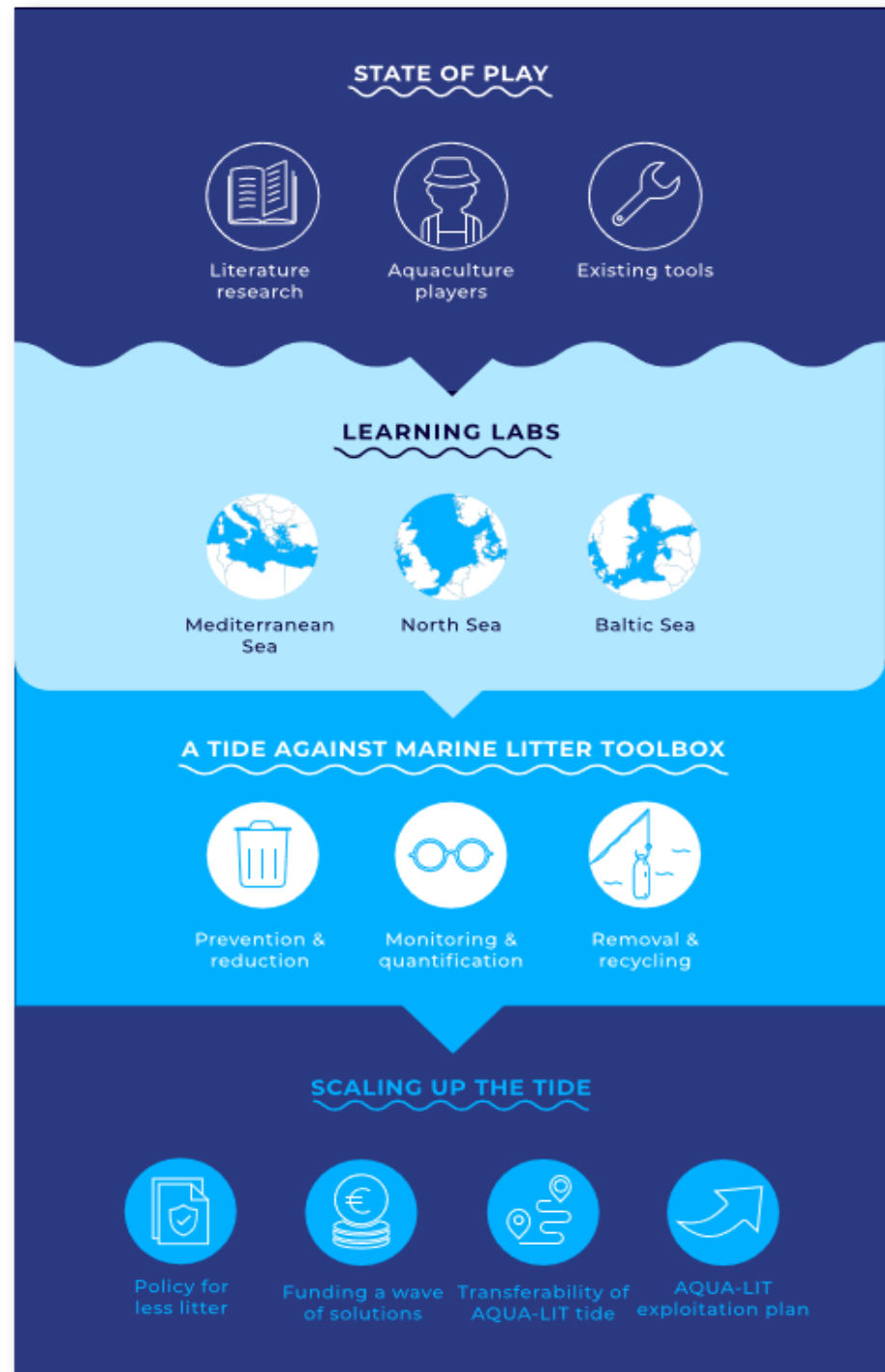
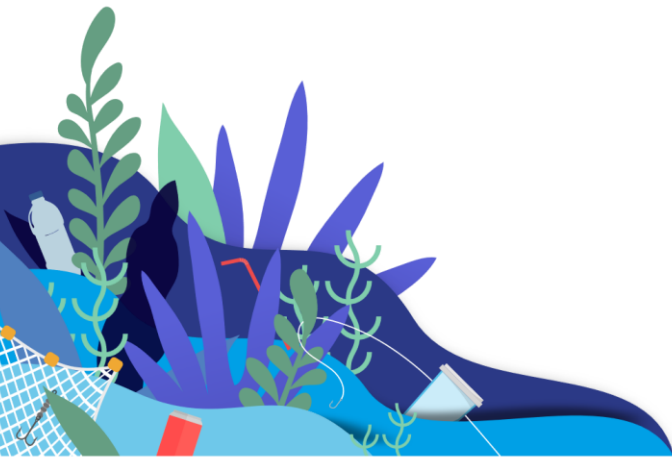




Where?



What?



State of Play



Literature
research



Aquaculture
players



Existing tools



Marine Litter inventory

A **solid knowledge base on marine litter from aquaculture activities**. This database includes information on the main types of debris as well as the quantities in which they occur in the marine environment, identifying specific sources of marine littering coming from aquaculture activities.



Regional maps on aquaculture litter

Sea basin maps generated for visualising information on the **geographic position of aquaculture facilities**, in combination with the **quantitative data of aquaculture-related litter**. These maps are provided for the three sea basins and give an initial indication of the source-sink story of aquaculture-related litter, which are a useful tool for the various stakeholders and policy makers.





MARINE LITTER INVENTORY

[PLASTIC]



The item inventory is a solid knowledge base on marine litter from aquaculture activities which is divided into general [A], specific [B] and other potential [C] items. Each item is characterized by an identification



AQUA-LIT

Tahitians^[B11]

Item type
Structure

Material
Plastic



Description:

Plastic structure from oyster cultures

Aquaculture species: Bivalves (mussel)

Aquaculture type: Stake method / longline culture

Source: OSPAR beach litter guidelines nr 30



Item type
Structure

Material
Plastic

Heavy-duty longlines^[B12]

Description:

Sub surface longlines who smaller growth ropes together

Aquaculture species: Bivalves (oyster), brown seaweed

Aquaculture type: Longline culture

Source: Niaounakis, 2017

Synthetic ropes

Item type
Ropes

Material
Plastic



Description:

Synthetic ropes (marily made of polysteel which is a blend of PP and PE, which has a 25 percent higher tensile strength than PP. Although, polyester and PA can be used, they are more expensive and more elastic than polysteel)

Source: Lusher et al., 2017 and Stachowitsch, 2019

MARINE LITTER INVENTORY



Item type
Nets

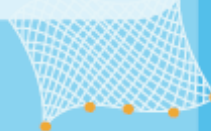
Material
Plastic

General nets

Description:

Tangled nets/cord/rope and string + net repair pieces

Source: OSPAR beach litter guidelines nr.33



Plastic netting for cages

Item type
Nets

Material
Plastic



Description:

Made of UV-stabilized polyethylene

Source: Niaounakis, 2017



Item type
Floats and buoys

Material
Plastic

Markers buoys

Description:

Made of moulded PE and filled with PU or PS for additional buoyancy

Source: OSPAR beach litter guidelines nr.37





MARINE LITTER INVENTORY

SEARCH BY TYPES OF LITTER



EXPLORE BY SEA BASINS



EXPLORE LITTER GEOGRAPHICALLY



**VIEW
ONLINE TABLE**



<https://aqua-lit.eu/marine-litter-inventory/menu>



Clothing
 1/ location(a)



Collecting material



Cover material



Floats and buoys



Ropes
25 location(s)



Strapping material
W location(s)



Tags



Nets

Account	Owner	Category	Sub-Category	Type	Account Name	Balance	Current Balance	Due Date	Amount	Interest	Notes
Account 1	John Doe	Category 1	Sub-Category 1	Type 1	Account Name 1	100.00	100.00	2023-12-31	100.00	0.00	Notes for Account 1
Account 2	Jane Smith	Category 2	Sub-Category 2	Type 2	Account Name 2	200.00	200.00	2024-01-15	200.00	0.00	Notes for Account 2
Account 3	Bob Johnson	Category 3	Sub-Category 3	Type 3	Account Name 3	300.00	300.00	2024-02-01	300.00	0.00	Notes for Account 3
Account 4	Alice Brown	Category 4	Sub-Category 4	Type 4	Account Name 4	400.00	400.00	2024-02-15	400.00	0.00	Notes for Account 4
Account 5	Charlie Davis	Category 5	Sub-Category 5	Type 5	Account Name 5	500.00	500.00	2024-03-01	500.00	0.00	Notes for Account 5
Account 6	Diana Evans	Category 6	Sub-Category 6	Type 6	Account Name 6	600.00	600.00	2024-03-15	600.00	0.00	Notes for Account 6
Account 7	Frank Green	Category 7	Sub-Category 7	Type 7	Account Name 7	700.00	700.00	2024-04-01	700.00	0.00	Notes for Account 7
Account 8	Grace Hill	Category 8	Sub-Category 8	Type 8	Account Name 8	800.00	800.00	2024-04-15	800.00	0.00	Notes for Account 8
Account 9	Henry King	Category 9	Sub-Category 9	Type 9	Account Name 9	900.00	900.00	2024-05-01	900.00	0.00	Notes for Account 9
Account 10	Ivy Lee	Category 10	Sub-Category 10	Type 10	Account Name 10	1000.00	1000.00	2024-05-15	1000.00	0.00	Notes for Account 10
Account 11	Jack Miller	Category 11	Sub-Category 11	Type 11	Account Name 11	1100.00	1100.00	2024-06-01	1100.00	0.00	Notes for Account 11
Account 12	Karen Wilson	Category 12	Sub-Category 12	Type 12	Account Name 12	1200.00	1200.00	2024-06-15	1200.00	0.00	Notes for Account 12
Account 13	Liam Young	Category 13	Sub-Category 13	Type 13	Account Name 13	1300.00	1300.00	2024-07-01	1300.00	0.00	Notes for Account 13
Account 14	Mia Hall	Category 14	Sub-Category 14	Type 14	Account Name 14	1400.00	1400.00	2024-07-15	1400.00	0.00	Notes for Account 14
Account 15	Noah Adams	Category 15	Sub-Category 15	Type 15	Account Name 15	1500.00	1500.00	2024-08-01	1500.00	0.00	Notes for Account 15
Account 16	Olivia Baker	Category 16	Sub-Category 16	Type 16	Account Name 16	1600.00	1600.00	2024-08-15	1600.00	0.00	Notes for Account 16
Account 17	Peter Clark	Category 17	Sub-Category 17	Type 17	Account Name 17	1700.00	1700.00	2024-09-01	1700.00	0.00	Notes for Account 17
Account 18	Quinn Lewis	Category 18	Sub-Category 18	Type 18	Account Name 18	1800.00	1800.00	2024-09-15	1800.00	0.00	Notes for Account 18
Account 19	Rachel King	Category 19	Sub-Category 19	Type 19	Account Name 19	1900.00	1900.00	2024-10-01	1900.00	0.00	Notes for Account 19
Account 20	Samuel Lee	Category 20	Sub-Category 20	Type 20	Account Name 20	2000.00	2000.00	2024-10-15	2000.00	0.00	Notes for Account 20

State of Play

REGIONAL MAPS



Percentage of litter originating from
aquaculture and/or fisheries

- 0
- [0, 5]
- [5, 10]
- [10, 15]
- > 15

Litter source

- Aquaculture
- Aquaculture/fisheries

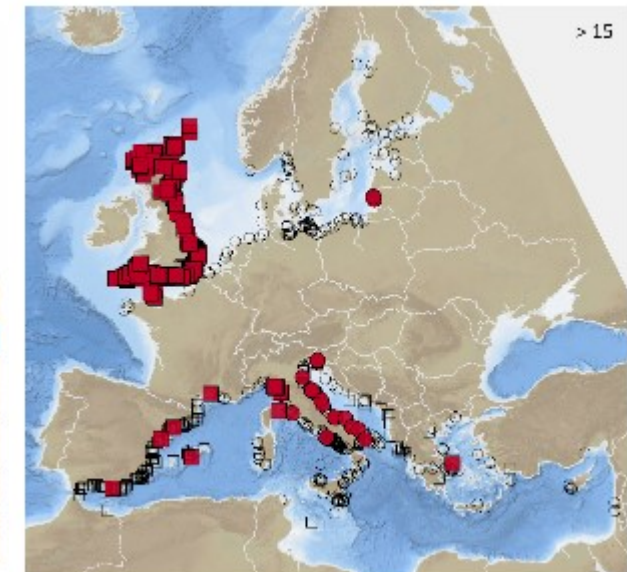
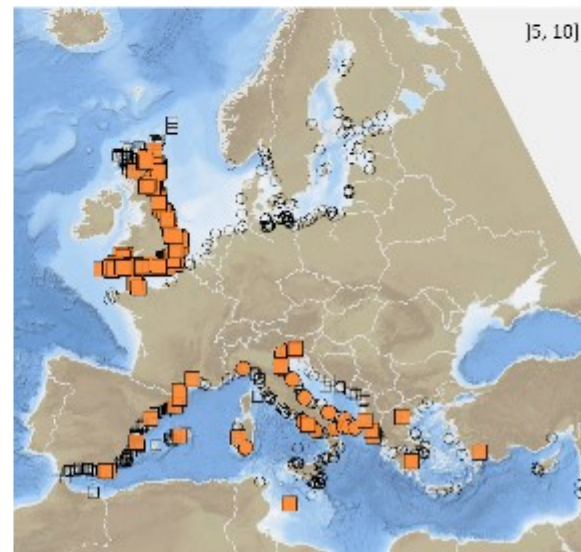
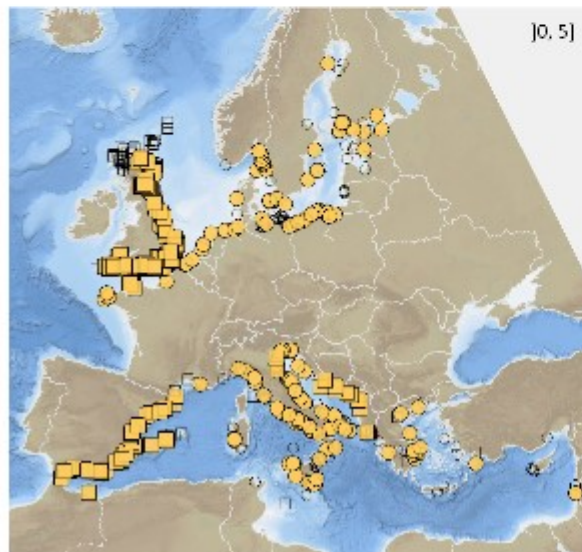
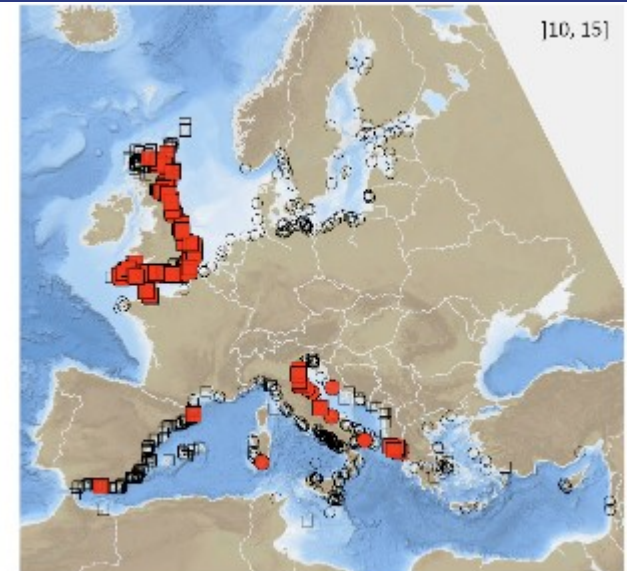
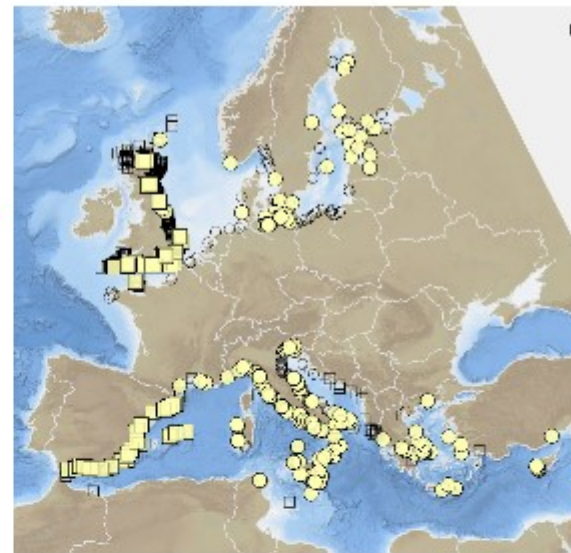


Created: 2020/01/10
Projection: Europe Lambert Conformal Conic

Source: GESOC; ESRI; OSPAR; HELCOM; Legambiente; Marine LitterWatch; Axidamo et al., 2017; De Vries, 2011; MARNOBA; MCS UK; Morlino et al., 2018; MITED; Menzies et al., 2015; Paoletti et al., 2016; Provençal et al., 2018; Riccio et al., 2015; Wlochogian et al., 2017; Wlochogian, 2019

Beach

The monitored beaches in the North, Baltic and Mediterranean Sea basins and their reported percentage of aquaculture related litter

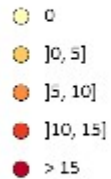


State of Play

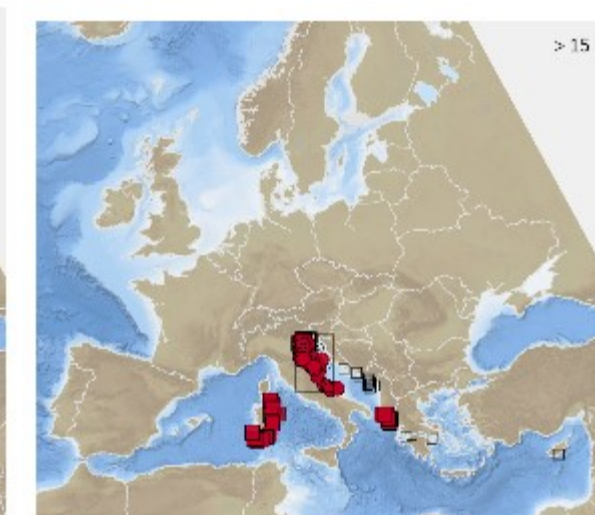
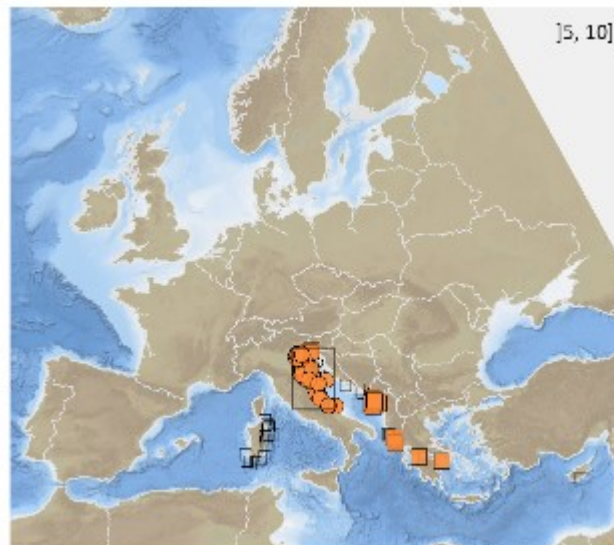
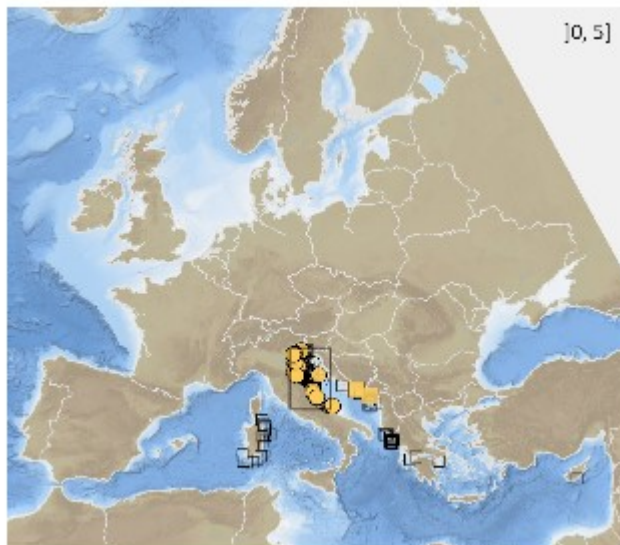
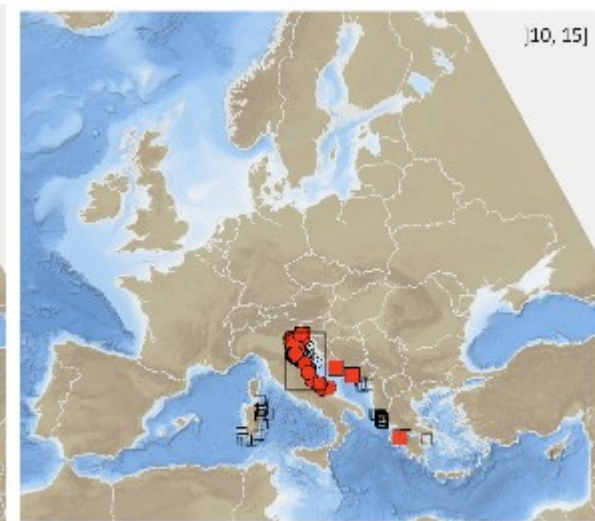
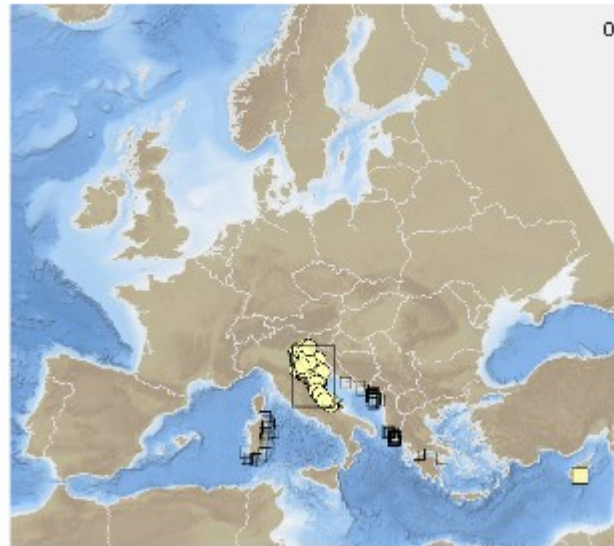
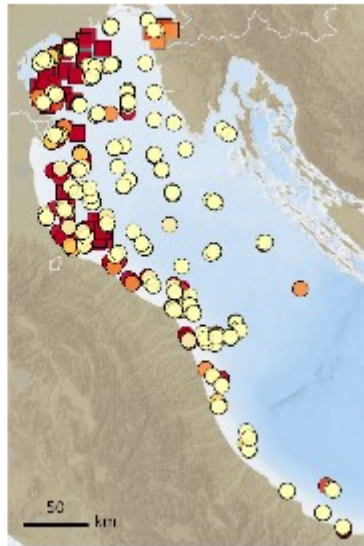
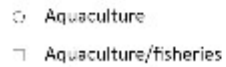
REGIONAL MAPS



Percentage of litter originating from aquaculture and/or fisheries



Litter source



Seabed

The locations of the seafloor surveys in the North, Baltic and Mediterranean Sea basins and their reported percentage of aquaculture related litter

State of Play



Literature
research



Aquaculture
players



Existing tools



REGIONAL MAPS

- 1 - Playa de Bolnuevo
- 2 - Playa Isla Plana
- 3 - Playa El Portús
- 4 - Cala Cortina
- 5 - Cala del Barco
- 6 - Playa de Calblanca
- 7 - Spiaggia di Voltri
- 8 - Spiaggia Sturla
- 9 - Marina di Vecchiano
- 10 - Castello Sonnino
- 11 - Porto Sant'Elpidio
- 12 - Pineto
- 13 - Fotini
- 14 - Scholinias

Legend

Aquaculture facilities

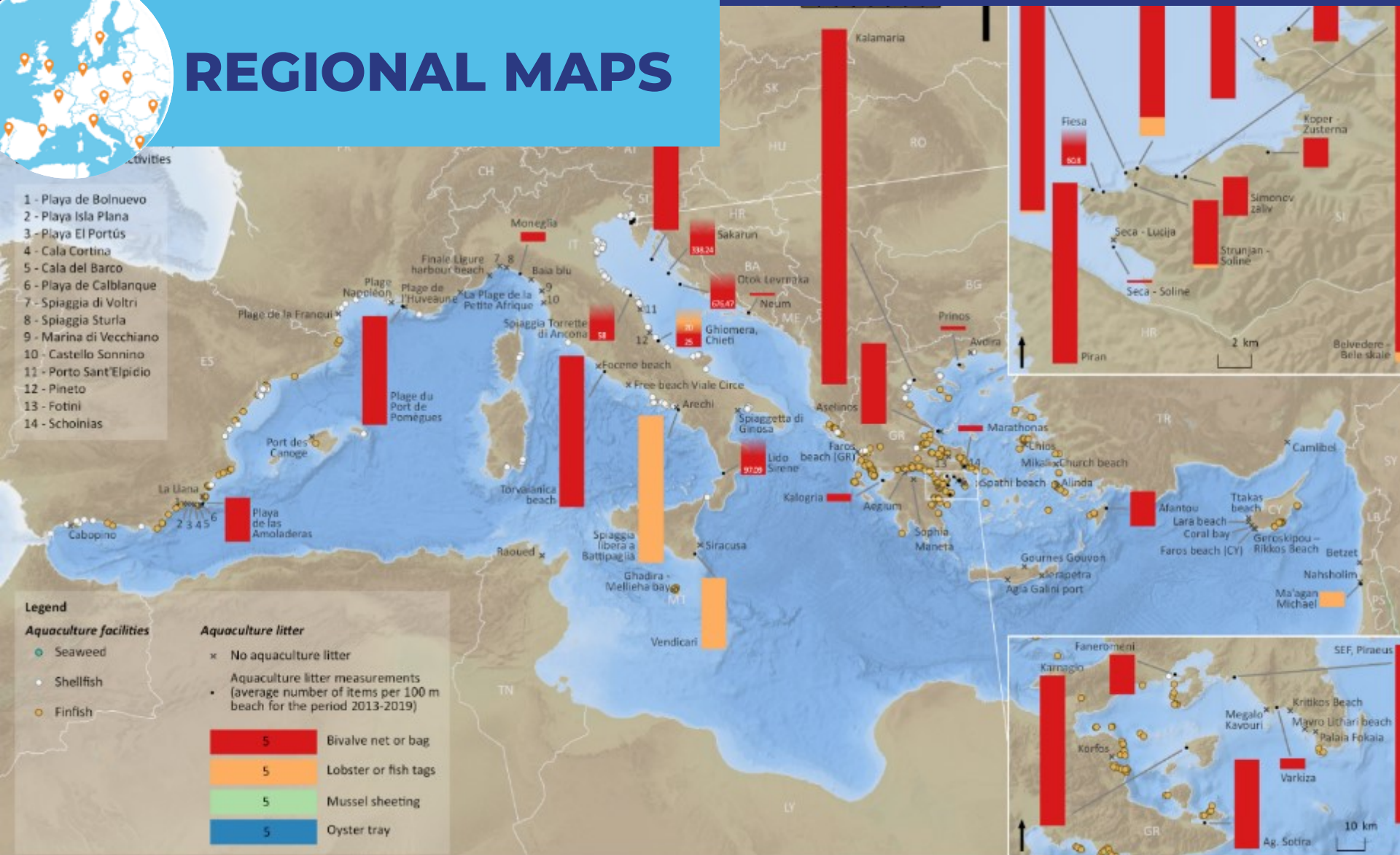
- Seaweed
- Shellfish
- Finfish

Aquaculture litter

- × No aquaculture litter

- Aquaculture litter measurements
(average number of items per 100 m
beach for the period 2013-2019)

5	Bivalve net or bag
5	Lobster or fish tags
5	Mussel sheeting
5	Oyster tray



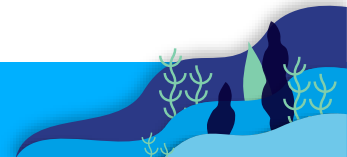


Other general Comments:

 **Most of the litter is made by plastic (more than 90%)**

- Monitoring programs should be harmonized across regions and countries.

 **The maps show data gaps in the different European basins**



State of Play



Literature
research



Aquaculture
players



Existing tools

Available policy tools and measures



Overview of the global, regional, European and national action plans and documents that contain measures to reduce or avoid marine litter from the aquaculture sector



GLOBAL

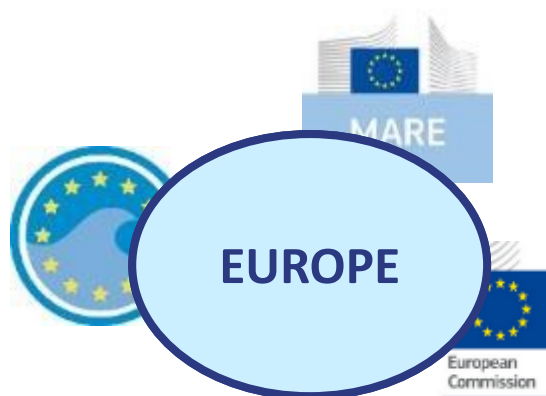


OSPAR
COMMISSION

REGIONAL



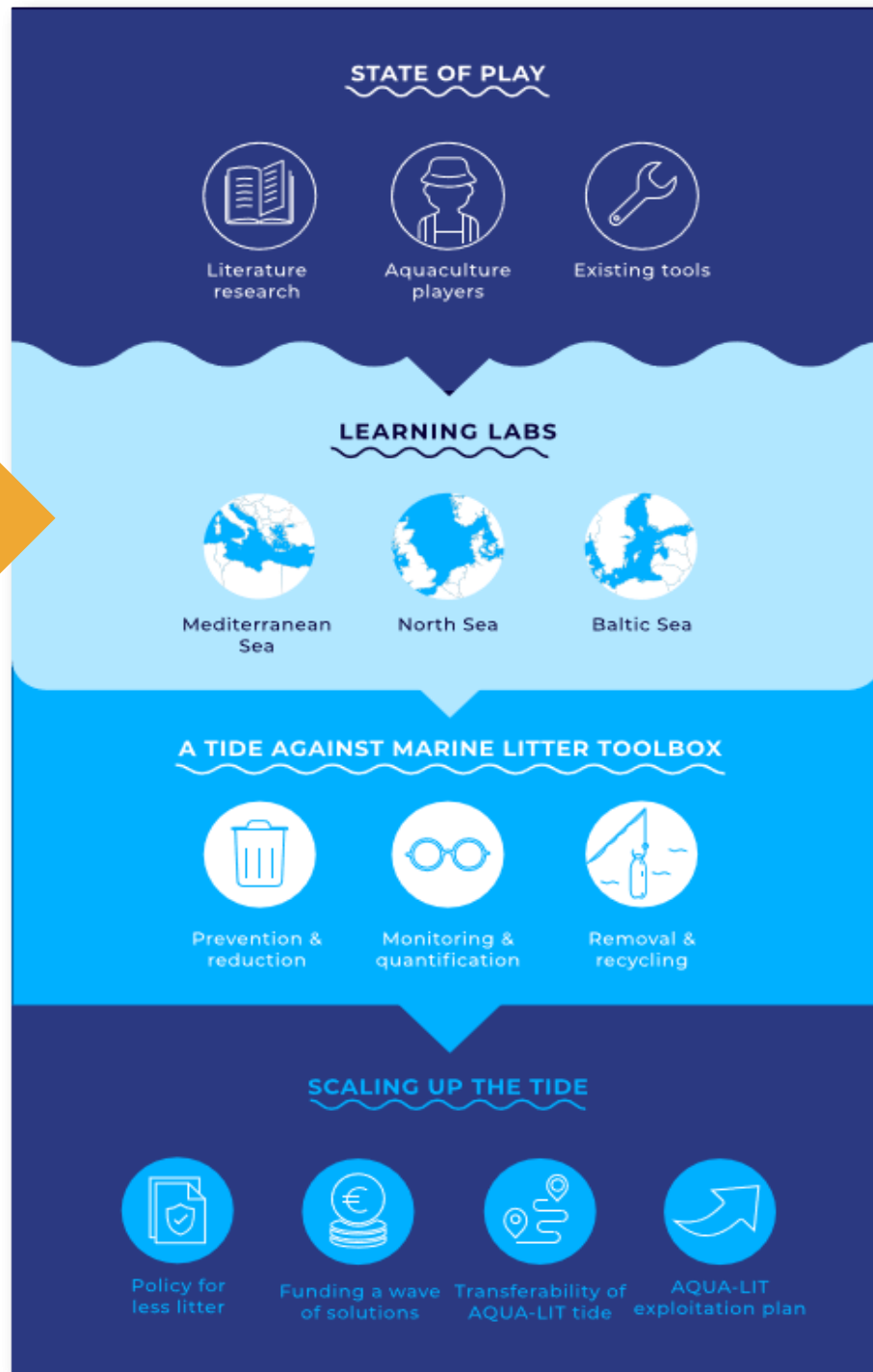
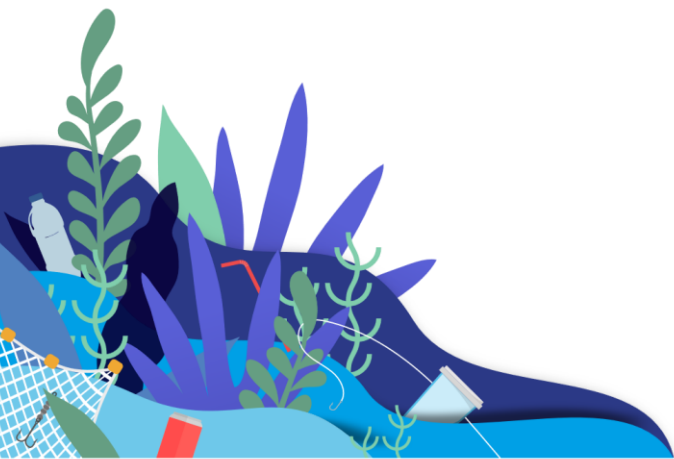
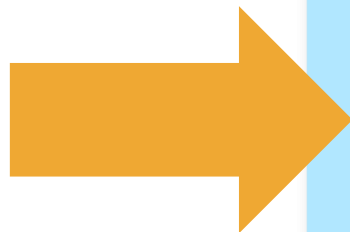
EUROPE



NATIONAL



How?



Learning Labs



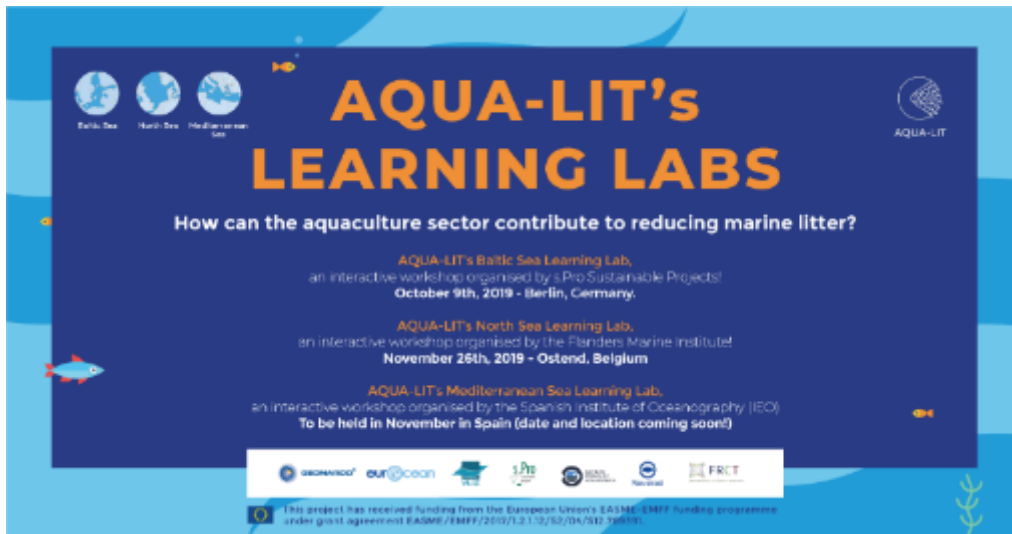
Mediterranean Sea



North Sea



Baltic Sea



AQUA-LIT's LEARNING LABS

How can the aquaculture sector contribute to reducing marine litter?

AQUA-LIT's Baltic Sea Learning Lab,
an interactive workshop organised by s.Pro Sustainable Projects!
October 9th, 2019 - Berlin, Germany.

AQUA-LIT's North Sea Learning Lab,
an interactive workshop organised by the Flanders Marine Institute
November 26th, 2019 - Ostend, Belgium

AQUA-LIT's Mediterranean Sea Learning Lab,
an interactive workshop organised by the Spanish Institute of Oceanography (IEO)
To be held in November in Spain (date and location coming soon!)

ORGANISMS, OUR OCEAN, s.Pro, Flanders Marine Institute, IEOM, FRCT

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement 845864/845865/2019/1.2.10/52/04/502 595555.



Learning Labs



Mediterranean Sea



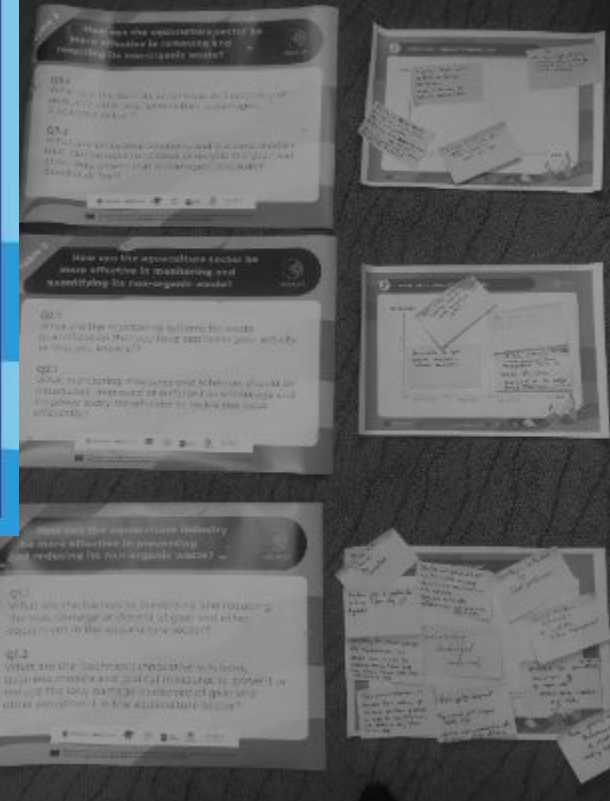
North Sea



Baltic Sea

AQUA-LIT Virtual Learning Lab

Barriers



Learning Labs



Mediterranean
Sea



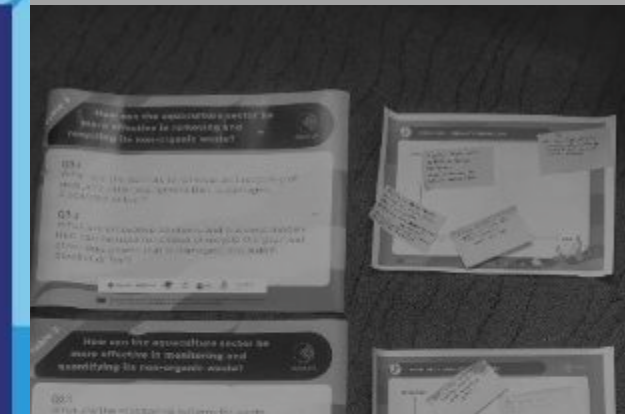
North Sea



Baltic Sea

AQUA-LIT Virtual Learning Lab

Barriers



AQUA-LIT Virtual Learning Lab Solutions

GOVERNMENTAL



INNOVATION



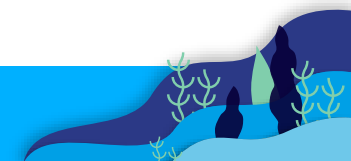
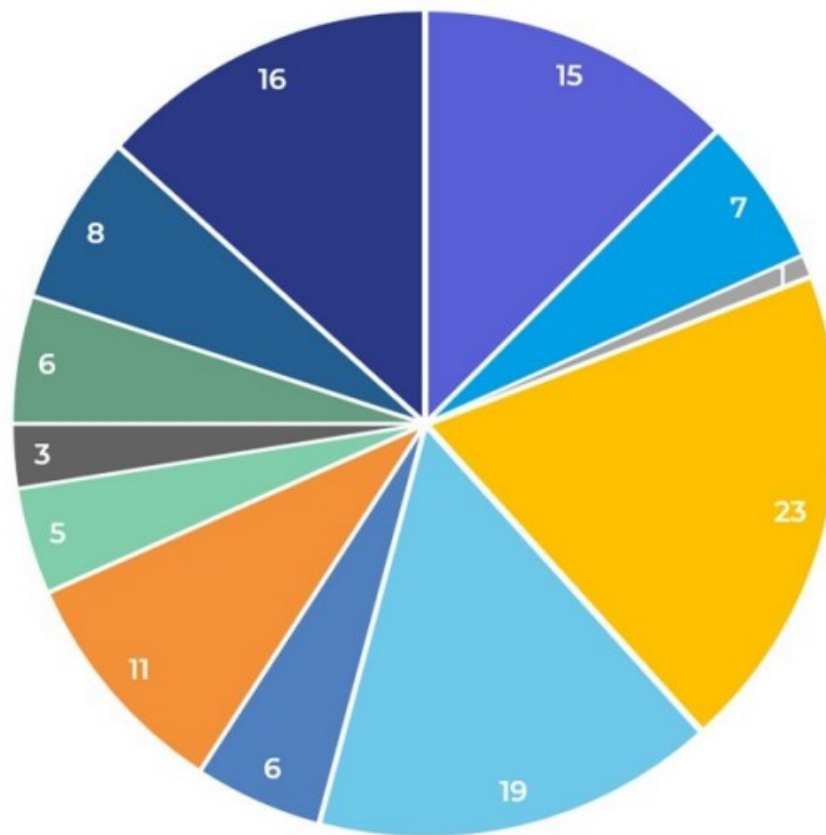


AQUA-LIT aquaculture stakeholders

Learning Labs & Interviews



- Aquaculture farmers (fish, shellfish, seaweed)
- Equipment manufacturers (e.g. of aquaculture gear)
- Engineering, system design and construction companies
- Academic research groups
- Professional clusters, associations and platform representatives
- NGOs
- Governance (including policy makers, implementers and port staff)
- Classification and certification bodies
- Companies processing waste (including waste recycling and incineration)
- Communicators (media, press, science communicators)
- Other (students, consultancy)
- Unknown





What?

A toolbox against marine litter **addressing:**



**Prevention &
Reduction**



**Monitoring &
Quantification**



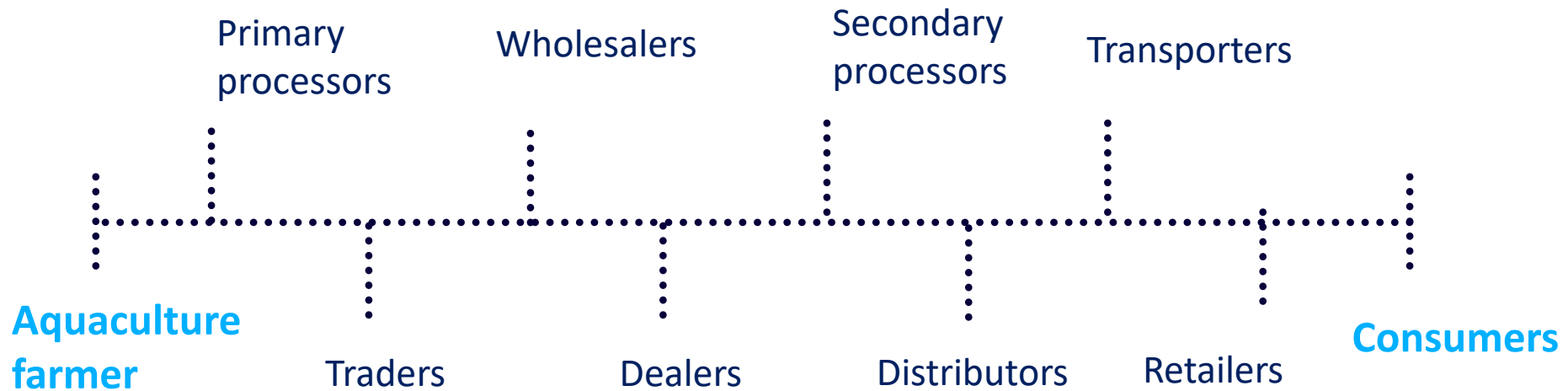
**Removal &
Recycling**





For whom?

Everyone along the aquaculture chain



TIDE AGAINST MARINE LITTER

TOOLBOX



**SOLUTIONS &
MEASURES**

**PORT
FACILITIES**

**FUNDING
OPPORTUNITIES**

**SUBMIT
INFORMATION**

**MARINE LITTER
INVENTORY**

**ACTION PLANS AND
POLICY
RECOMMENDATIONS**

<https://aqua-lit.eu/toolbox>



For example,



SUPPORT MEASURES

Install professional collection systems like specialised motorboats, cleaning vessels or innovative passive catchers placed outside the farm (depending on currents).



Technical support

Relevant type of aquaculture:



Image: Dronaquatech

Related Barriers:

- More research is needed concerning the recycling options of used nets.
- Very little or no information exchange and dialogue about innovative solutions of waste management (i.e. common sourcing/funding/monitoring/best practice replication) and new materials with higher recyclability.
- Provisions of the SUPD are yet not implemented on national level.



***"What a great way of starting the weekend!
It's beautiful, very very beautiful"***



***"The toolbox is impressive, I like how you placed
the abbreviations for a quick recognition of
terms. It really looks great"***



***"Waaaawww! HOW COOL IS THAT. Very very
very fantastic work!! Congrats to you all!"***

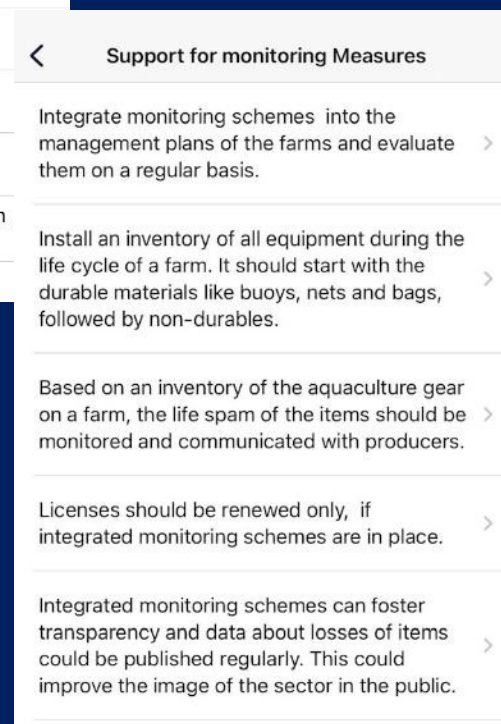


"Big congrats on this superb work! It looks great!"

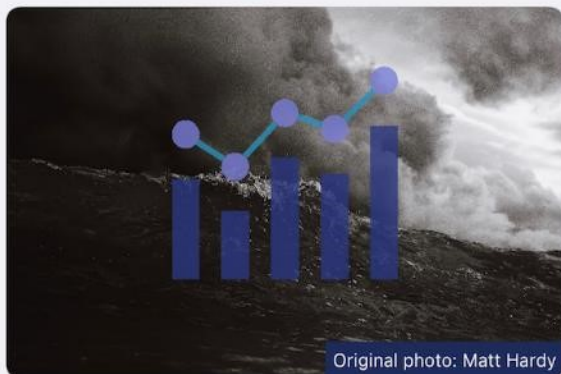


***"Congrats once more on the superb toolkit and
the app - it looks great and I am sure it will be
useful, both for the regulators and industry"***





< Support for monitoring Measures



SOLUTION

Improve compatibility of datasets among countries or regions (for example, through the standardization of sampling methods and quality assurance of the data) and translating research activities into monitoring (e.g. for litter and noise).

MEASURE

Category

Support

Type

Support for monitoring

RELEVANT TYPE OF AQUACULTURE



Fish



< Support for monitoring Measures

RELEVANT TYPE OF AQUACULTURE



Fish



Shellfish



Seaweed

RELEVANT SEA BASIN



Baltic

RELEVANT STAGE



Monitoring and quantification

RELATED BARRIERS

The (national/regional) monitoring programmes from the national governments are currently not sufficient as a knowledge base for the aquaculture sector.

Countries are focusing on their national approaches instead of enhancing transboundary cooperation.

Weak political will.

HELCOM does not have a monitoring programme on marine litter caused by aquaculture yet.



TIDE AGAINST MARINE LITTER

TOOLBOX



**SOLUTIONS &
MEASURES**

**PORT
FACILITIES**

**FUNDING
OPPORTUNITIES**

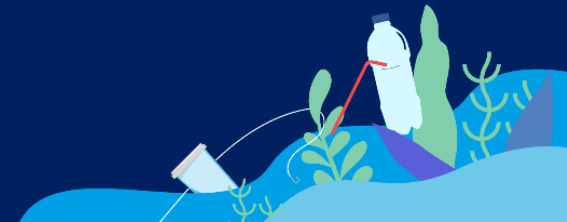
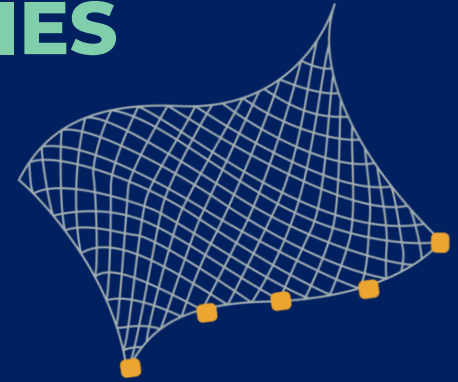
**SUBMIT
INFORMATION**

**MARINE LITTER
INVENTORY**

**ACTION PLANS AND
POLICY
RECOMMENDATIONS**



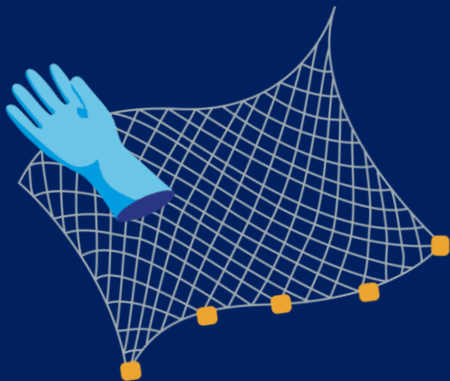
PORT RECEPTION FACILITIES



PORT RECEPTION FACILITIES



- **Boulogne-sur-mer**
- **Calais**
- **Dunkerque**
- **Rouen**
- **Le Havre**
- **Brest**





Dunkerque

Type of waste

Domestic waste, food scraps, wood, paper, cardboard, glass, oil fliters, batteries, fluorecent tube, paint bucket, solvents, ashes, oil, polluted fuel, polluted waters

Is there a fee?

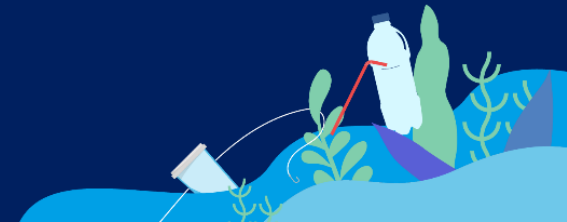
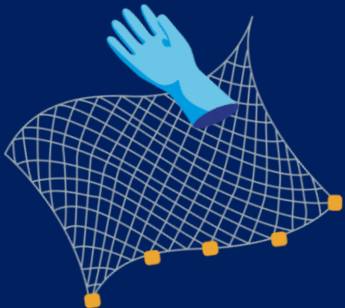
No information available

Is there any limitation (e.g. forbidden type of waste)

For liquid waste, the ship must get in touch with aprooved companies. The port doesn't directly manage liquid waste. For dangerous waste, the port must be advised. For medical waste, the ships must contact an aprooved company

Where can I find more information?

<https://www.spd-calais.com/fr>



TIDE AGAINST MARINE LITTER

TOOLBOX



**SOLUTIONS &
MEASURES**

**PORT
FACILITIES**

**FUNDING
OPPORTUNITIES**

**SUBMIT
INFORMATION**

**MARINE LITTER
INVENTORY**

**ACTION PLANS AND
POLICY
RECOMMENDATIONS**



FUNDING OPPORTUNITIES



EU-level



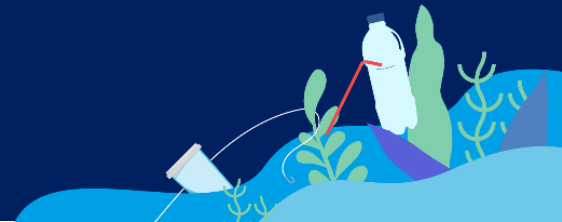
**National
level**



**Grants &
Investors**



Trans-regional



FUNDING OPPORTUNITIES

NATIONAL PROGRAMMES

Sea Basin

- Show all -

Geographical Scope

- Show all -

Acronym	Name	Country	Objective	Target	Key Themes	Sea-basin	Programme
BMBF FONA - Coordinated Programme	Federal Ministry of Education and Research (BMBF) - Research for Sustainable Development Coordinated Programme	Germany	The framework programme "Research for Sustainable Development" (FONA) implements the national sustainability strategy and is part of the Federal Government's Hightech Strategy. The strategy aims to ensure that Germany remains a technological leader, while promoting sustainability and climate protection.	researchers	monitoring	Baltic Sea	🔗
DFG Coordinated Programme	German Research Society - Coordinated Programme	Germany	The DFG offers funding opportunities for eligible research institutions in Germany for collaborative projects that combine research with the development of specialist or institutional core areas or structures.	researchers	marine litter movement	Baltic Sea	🔗
BMBF	Federal Ministry of Education and Research (BMBF)	Germany	With the High-Tech Strategy 2025, the BMBF is creating the conditions for research and innovation to develop in an environment characterised by creativity, agility and openness. To this end, the funding programme is setting thematic priorities and focusing efforts on fields that show particular dynamism, have great potential for growth and employment, and exhibit a high need for innovative solutions to pressing issues like marine litter.	researchers, industry	properties of different plastic types	Baltic Sea	🔗
UBA	Federal Environmental Agency (UBA)	Germany	Tendering programme for environmental projects; one focus is on the achievement of GES under the MSFD related to marine litter, another is on circular economy and the reduction of marine litter.	researchers	monitoring, marine litter movement	Baltic Sea	🔗
BMEL	Federal Ministry of Food and Agriculture (BMEL)	Germany	The programme combines research, technologies, ecology and economy for new biotechnologies and an innovative bioeconomy with a focus on new products derived of renewable raw materials and the reduction of microplastics.	researchers	impact of plastic on marine environment	Baltic Sea	🔗
	Fundación Biodiversidad - Programa Pleamar	Spain	FEMP funding. Pleamar is intended to support between 2014 and 2020 around 200 projects that contribute to the protection of marine biodiversity, the practice of more sustainable fishing and aquaculture activities, the reduction of unwanted catches and the reinforcement of the management of the marine protected areas. The co-financing of around 70 consultancies on environmental matters and around 35 collaboration and networking projects between scientists and agents of the sector is also foreseen.	Consultancies, research centers and other agents	Fishing innovation, aquaculture innovation, fishing and aquaculture networking support, protected areas, litter and awareness	n.a.	🔗





Furthermore

SCALING UP THE TIDE



Policy for
less litter



Funding a wave
of solutions



Transferability of
AQUA-LIT tide



AQUA-LIT
exploitation plan

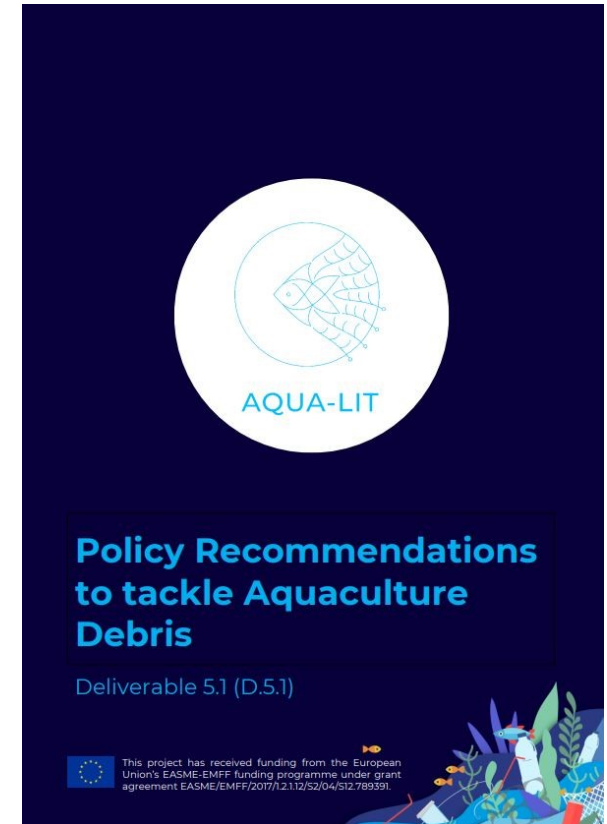




Policy recommendations

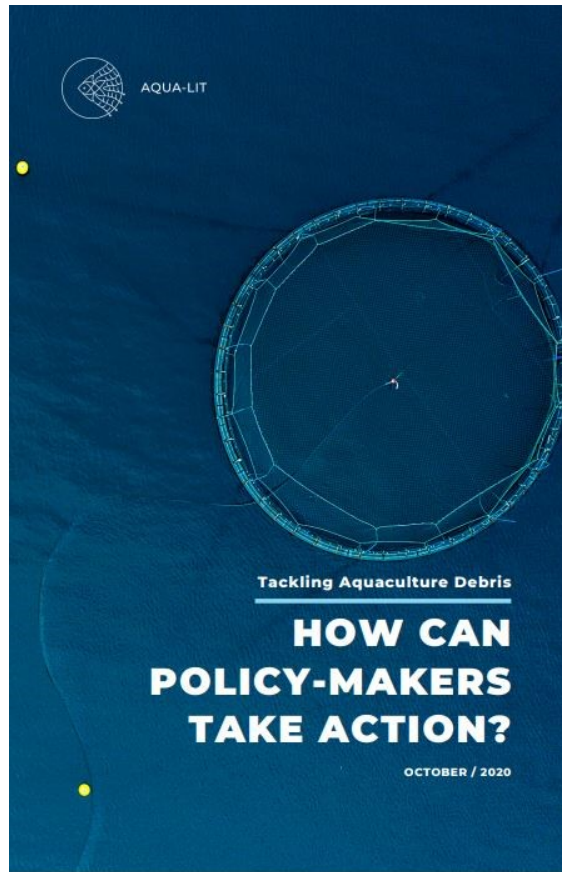
A set of **58 important recommendations** were developed to be considered by the aquaculture sector in the future. In addition, it was also possible to identify the **eight main gaps to overcome the discarding of litter** in the marine environment related to the aquaculture industry.

<https://aqua-lit.eu/toolbox/action-plans-and-policy-recommendations>





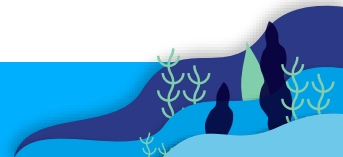
Policy recommendations



Also, a summarized version of the full policy recommendations report was made through an infographic in order to make the engagement and digestion of information easier.

Key Policy Recommendations		
<p>SUPPORT, namely technical, financial and organizational.</p> <p>EDUCATION, TRAINING, COMMUNICATION and COOPERATION.</p> <p>MONITORING losses and litter in the environment with innovative approaches and guidelines.</p> <p>WASTE MANAGEMENT with waste collection points, deposit schemes, incentives, upcycling processes, waste flows.</p> <p>PRECONDITIONS FOR LICENSING.</p>	<p>REGULATIONS through creation and inspections perform.</p> <p>POLICY developing national law and incorporating and implementing policies in national laws.</p> <p>HARMONISATION in licensing procedures and certification systems, of decommission.</p> <p>CERTIFICATION including the standardisation of the labelling systems.</p> <p>Identify the SHARED RESPONSIBILITY.</p> <p>Identify the PRODUCER RESPONSIBILITY.</p>	<p>Identify the FARMER / USER RESPONSIBILITY.</p> <p>Include criteria for CORPORATE SOCIAL RESPONSIBILITY (CSR).</p> <p>MARINE DEBRIS MANAGEMENT through synergies among all the involved stakeholders.</p> <p>DATA QUANTIFICATION on aquaculture debris.</p> <p>RESEARCH and INNOVATION, enhancing knowledge and promoting interdisciplinary and international collaborations.</p> <p>New MATERIALS and new DESIGNS for aquaculture equipment</p>

<https://aqua-lit.eu/toolbox/action-plans-and-policy-recommendations>





Example Policy Recommendations



➤ FINANCIAL SUPPORT:

Increase financial support to incentive the development and implementation of sustainable innovative design of materials and equipment, waste collection services, and recycling initiatives.



➤ MONITORING SUPPORT:

Develop guidelines for monitoring programmes based on the Life Cycle Analysis of the materials and the infrastructures put in place.



➤ SUPPORT WASTE MANAGEMENT

Establish waste collection points for aquaculture gear disposal in the port reception facilities and promote upcycling process and incentivise recycling and upcycling.





➤ SUPPORT FOR EDUCATION AND COLLABORATION

Increase communication on good practices, environmental awareness among stakeholders, and clean up initiatives.



➤ LICESING:

Include information on quality standards of materials, technical studies, and waste management plans in the license application processes



➤ REGULATIONS:

Create a specific European/sectorial Single-Use-Plastic regulation and Extended Producer Responsibility scheme regulation for fisheries and aquaculture





➤ RESPONSIBILITY

Identify the role and responsibility of all the stakeholders involved in the waste management process and financial incentives to companies with good waste management



➤ HARMONISATION:

Harmonise certification systems, including waste management plans



➤ KNOWLEDGE:

Increase knowledge related to the aquaculture marine debris and, to improve and increase the current marine debris data quantification and methodologies



➤ INNOVATION:

Incentivise research and implementation of new sustainable innovations





Furthermore

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Transferability of
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Transferability



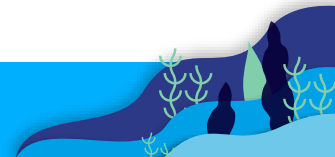
A series of webinars were created to pass our tools and resources useful for other regions that were not the focus of the project.

A webinar in Spanish was carried out targeting the Canary islands and its aquaculture context.



Another one was carried out in Portuguese for the Azores islands and continental Portugal.

And one last one in English for all other regions.





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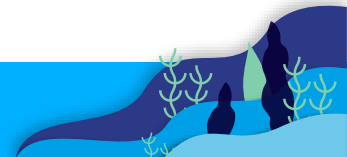


Exploitation plan

🐟 Describes how five of the main results of AQUA-LIT can be exploited or further developed after the termination of the project. Being these results:

1. Learning Lab methodology
2. the Toolbox “Tide Against Marine Litter”
3. Review of Players at Play
4. Compendium of Available Tools and Measures, and
5. The Marine Litter Inventory)

The plan can be consulted at <https://aqua-lit.eu/resources/deliverables>



AQUA-LIT's summary of activities





Potential
Future
Impacts by
2025



Policy
recommendations
for the aquaculture
sector



AQUA-LIT
transferability
webinars to
other regions



Reached 1,650
followers in our
channels



Exploitation
plan



Mediterranean
and Virtual
Learning Labs



Portfolio of best
practices to prevent,
reduce, monitor, quantify,
remove and recycle
marine litter



Funding opportunities
database for marine litter
projects



AQUA-LIT toolbox and
App launched!



Final meeting
and closing of
the project

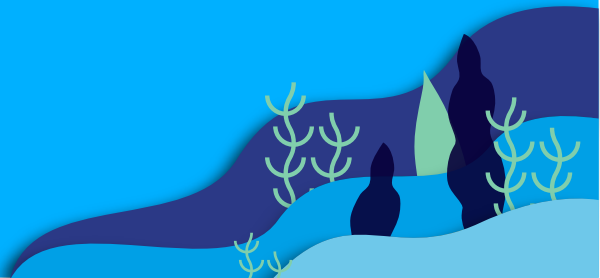


2 years



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