

























### TABLE OF CONTENTS

PROJECT OVERVIEW

p.2

**p.3** 



### SEABIL PROJECT

Project Actions background and objectives results p.4-5 p.6-9

## AFTER-LIFE PLAN OBJECTIVES AND ACTIONS

p.10-19



## PROJECT OVERVIEW

**Title: Saving SeaBirds from marine Litter** 

**Location: France, Spain and Portugal** 

**Coordinator: LPO France/Birdlife** 

### **Associated beneficiaries:**

- Sociedad Española de Ornitología/Birdlife (SEO)
- Sociedade Portuguesa para o Estudo das Aves (SPEA)
- Littoral Environnement et Sociétés (LIENSs) University of La Rochelle
- Universidad de Cádiz (UCA) since 10/10/2022
- Universidad de Almería (UAL) until 31/12/2022

**Project duration:** 04/10/2021 – 30/12/2024

**Total previsional budget: 1,076,352 €** 



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## NTRODUCTION

### **Project background and specific objectives (SO)**

According to estimates, almost 90% of seabirds have plastic in their stomachs. When they are not killed by ingestion, plastic threatens their survival and affects their habitats and their reproduction.

Within the context of the fight against marine pollution, the LIFE SeaBiL Project "Saving SeaBirds from marine Litter" intends to evaluate and reduce the impact of plastic pollution on seabirds.

The project involves 5 pilot sites in 3 countries:

- France : Gironde estuary and Pertuis sea Marine Natural Park (PNMEGMP)
- Portugal : Berlengas Natural
   Reserve
- Spain: Ebro Delta Natural Park, Urdaibai Biosphere Reserve / Santoña Marshes Natural Park; Cabo de Gata Natural Park

The LIFE SeaBiL is coordinated from continental France by LPO/BirdLife France and is carried out by the associated beneficiaries in the other pilot sites, experienced in conservation in their respective regions.

In LPO, the project coordinator is helped by a financial coordinator. La Rochelle University (represented by LIENSs) has 1 coordinator.

In each of the 5 pilot sites, the project is coordinated by one or two local coordinator (2 at Cabo De Gata, 2 at Urdaibaï/Cantabria, 2 in Berlengas).

SEO is initially working on two pilot sites, Urdaibaï and Ebro Delta. At early stage of the project, SEO wanted to add a new pilot site: Santoña's natural park, which is right next to Urdaibaï. This pilot site is bigger than Urdaibaï and SEO duplicated some actions there. It also allowed to deploy some actions when they were not possible at Urdaibaï.

The LIFE SeaBiL project aims to better take into consideration birds in the monitoring of marine environmental quality and waste management by pooling the transnational skills of the participants involved, by deepening cooperation and knowledge, and by producing common tools, methodologies and governance. It aims at improving the European monitoring of marine litter, promoting research on its impact on seabirds and enhancing the work of care centres at a transnational level.

SO 2. Consolidate the acquisition of knowledge on the impact of plastic waste on seabirds and define an indicator species for Good Environmental Status (GES), in agreement with the Marine Strategy Framework Directive (MSFD).



SO 4. Raise awareness amongst the general public on the issue of marine litter and seabirds in the N2000 areas.



SO 1. Improve the coordination of beach cleaning actions and the monitoring of stranded birds by strengthening the skills of those involved and by setting up a transnational network.



SO 3. Improve the identification of marine litter sources to optimize the management and prevention of waste in the N2000 areas.

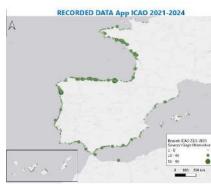
P4 P5

## **B**1

## Select and adapt a beach cleaning and stranded seabird monitoring tool for transnational use (SO1)

# **ACTIO**

- Structure a database consistent with national databases.
- Provide a mobile application and an online portal to count stranded seabirds during beach monitoring.





### **KEY RESULTS**

### **ALL BENEFICIARIES**

Worked to develop app for survey of stranded birds usable on the Atlantic and Mediterranean coast and in relation with marine litter tools.

**2** mobile applications linked to online databases for collecting and viewing data on stranded seabirds (ICAO) and marine litter (MARNOBA).

**1619** downloads of the ICAO app.

**4** workshops to adapt, develop and update these tools according with all stakeholders.

**3973** surveys done.

**4326** stranded birds recorded.

1 user guide developed.

4 available languages.

## **B3**

## Train managers on best practices for beach clean-ups respectful of seabirds and the use of the mobile app (SO1)

# **ACTIO**

- Organize and demonstrate low footprint beach cleanups based on the coconstructed tools.
- Organize beach clean-ups without impacting species and their habitats: collections at low tide and outside nesting periods, exclusion of sensitive areas, banning dogs during activities, raising volunteers' awareness.



### **KEY RESULTS**

### **ALL BENEFICIARIES**

Provided online and in-person training to local stakeholders on ICAO/MARNOBA and beach clean-up guide, and collected feedback.

**11** training courses, including 3 online sessions.

**139** stakeholders reached (majority of N2000 manager and organizers of beach clean-up).

**56** beach clean-ups in total.

1263 volunteers.

**2** analysis reports about impact of tools, training and beach clean-ups characterization.

Linked to B2 action ("Low footprint" guide):

**5** final map and guides available online.

235 downloads of this tool and 800 distributed.

## **B4**

## Create a transnational and local networks for monitoring and collecting stranded birds (SO1)

# **ACTIO**

- Creation of a formal network bringing together managers of natural areas, beach clean-up organizers, volunteer collectors, research centers and care centers in 3 Member States.
- Training and sharing of best practices and knowledge (workshops, common protocols, methodological guides, birds-risks maps).
- Co-construction of networks charters – networks schemes.



### **KEY RESULTS**

#### **ALL BENEFICIARIES**

Have built a transnational seabird stranding network. Many various structures involved and a good volunteer's mobilisation.

3 national networks linked in 1 transnational network.

6 networks charters signed.

88 networked structures (included

**27** care centers, **14** N2000

managers, **20** scientific partners and

**27** volunteer's structures).

**1619** actors involved (stakeholders and volunteers).

1 contact & skillbook.

## **B6**

## Demonstrate the implementation of network mobilization on 5 pilot sites (SO2)

# ACT10

Collection of stranded birds in the field and in care centers on the 5 pilot sites.

- Transfer to researchers to perform analysis.
- Analyses of microplastics in seabirds and proposition of MSFD indicator species.



### **KEY RESULTS**

### **ALL BENEFICIARIES**

Demonstrated the effectiveness of the stranded bird recovery network and analysed stranded seabirds to define a new indicator species.

>500 seabirds collected

**405** stored by partnership for analysis,

including 128 in Portugal, 195 in

Spain and **82** in France.

### Linked to A1 & B5 actions:

**7** derogations for transport/storage of stranded birds.

1 transportation & necropsies protocol.

1 protocol for sampling seabirds in breeding colonies.

1 tissue bank with findable, accessible, reusable and interoperable databases.

### **B8**

## Implement transnational marine litter monitoring to improve source identification (SO3)

## **VCTIO**

- Training of operators in the MSFD/OSPAR beach litter protocol and implementation of beach litter monitoring.
- Adaptation of a waste identification reference system to local contexts and for stranded seabirds.
- Sharing of knowledge on the local territory's type of waste and data.



### **KEY RESULTS**

### **FRANCE and SPAIN**

Identified local sources of marine litter in order to provide information to local and national authorities to facilitate the implementation of waste reduction measures.

- 1 harmonized OSPAR Protocol in Spain and France with a field sheet including information on seabirds.
- **6** operators trained to follow beaches with OSPAR protocol in Spain (3 beaches).
- **3** beaches in French pilot site to test a new protocol (Gatseau, Moëze-Oléron, Ile de Ré).
- **9** samples sent to CEDRE preceded
- by 1 training session in France.
- **1** analysis report on MSFD/OSPAR monitoring.

## Raise awareness amongst the general public on the issue of marine litter and seabirds in the N2000 areas (SO4)

# ACTIO

- Awareness-raising campaign on N2000 sites and the seabirds they support in 3 countries (exhibition, challenges etc.).
- Information panels, stand and distribution of goodies (beach ashtrays, inox cups, organic cotton bags).
- Awareness-raising in 5 schools involved.



### **KEY RESULTS**

### **ALL BENEFICIARIES**

Raised awareness among the general public and schools.

- **57** awareness-raising stands.
- **2356** people reached at least.
- **21** informative/sensibilisation panels installed.
- **3000** goodies distributed.
- **676** schoolchildrens awareness-raised,

including 490 students involved in Portugal.

Linked to B11 action:

- **15008** persons reached through social networking.
- 3 short videos about project and plastic impact.
- **1** special magazine (Oiseau Mag Junior).
- 1 scientific article in Spain's leading ornithology magazine.

## **C**1

### Monitor the impact on seabirds targeted

- Kentish plovers spring surveys in each pilot sites.
- Rate per country based on care centre data about bird arrivals/death causes.
- Number of data collected on participatory application.





### **KEY RESULTS**

### **FRANCE and SPAIN**

Monitored the project's impact on seabirds through surveys of Kentish plovers, tracking seabirds in care centers, and stranded seabirds from ICAO.

- **2** plovers spring's surveys in Spain (2023 and 2024).
- **3** surveys in France (2022, 2023, 2024).
- **209** couples and **183** chicks observed in 2024 (France).
- **3,5** % of seabirds alive admitted in 4 LPO care centers in France are confirmed plastic's victims.

## CTIO

## Monitor the impact on marine litter management and prevention

- Assessment of the use of the guidelines and protocol for beach cleaning management.
- Monitor the number of volunteers engaged on beach clean-ups.
- Quantification of the use of plastic bins
- Quantification of marine litter collected at beach clean-ups.





### **KEY RESULTS**

### **ALL BENEFICIARIES**

Monitored the number of surveys, volunteers, waste in tidal bins and of beach clean up litter collected.

- 1 report by UCA.
- **1 115** marine litter (85.3 Kg) removed from Spanish beaches because of the 5 tidal bins installed.
- **56** beach clean-ups with **1263** volunteers.
- **22.5** volunteers on average per beach clean-ups.
- **1722** kg collected during beach clean-ups.
- **5** marine litters bins.



## AFTER-LIFE PLAN

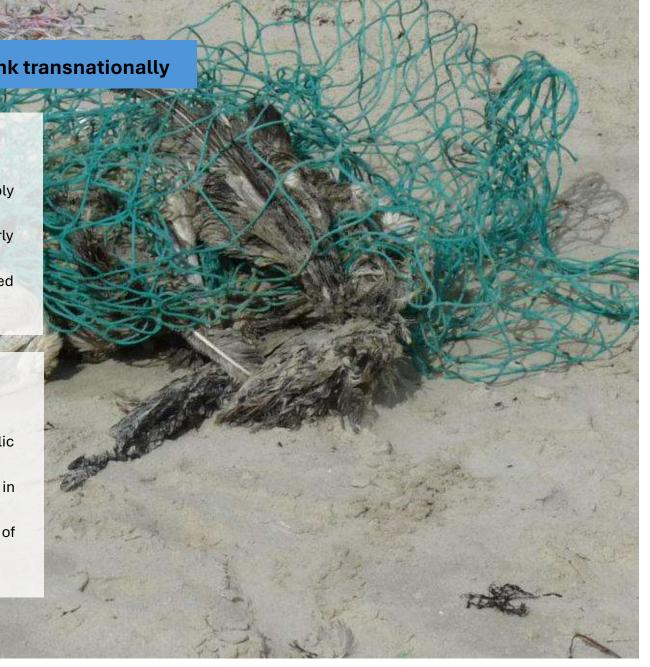
1 . Collect stranded seabirds over the long term and manage the tissue bank transnationally

### **Networks for stranded seabirds:**

- ✓ Fully operational at the end of SeaBil project.
- A continuity plan has been created over the last semester of the project to secure biological material supply and its physical and financial support.
- Monitoring will be incorporated in NGOs regular missions: LPO, SPEA and SEO will continue to regularly monitor the target species.
- ✓ Monitoring of Kentish plovers in France and collect of Common Guillemot, Atlantic Puffin, Black-legged Kittiwake, Northern Gannet and Northern Fulmar will be maintained after the project.

### Long-term collection and tissue bank transnationally:

- ✓ To monitor the impact on targeted species and expand research on sub-lethal effects.
- ✓ It will be carried by LIENSs and other associated beneficiaries in their countries. An agreement with public authorities in charge of MSFD's implementation will be sought.
- ✓ The research work will be continued after the project (at least 200 more stomach analysis after LIFE), in cooperation with the network.
- ✓ The collection of seabirds will be organized under the network mobilisation and will enable the use of samples collected during the LIFE and stocked in the tissue bank.



## AFTER-LIFE PLAN



### ICAO app: c Naturel Marin

- The tool adapted and used during the project will require debugging and updating as an all-online tool. This will be included in the beneficiary's routine missions.
- ✓ LIFE SeaBiL's tool is an adaptation and improvement of existing tools. The monitoring of the tool and the long-term monitoring are agreed upon with the ICA<mark>O tool owner.</mark>
- Continue to be hosted and used by all beneficiaries. Open-access application for at least 10 years (agreement with the host of the application).

### National and local networks for stranded seabirds:

- Its directory will be updated annually after the LIFE SeaBiL project in order to update the information and add new participants to ensure the expansion and continuity of the project's objectives.
- ✓ The network meetings will continue at a once-a-year rate to discuss the progress of follow-up actions and replications.
- ✓ The network will be strengthened (care centers, volunteers) and enlarged geographically within a replication framework. For replication, funds will be sought progressively by each stakeholder and partner.

Cabo de Gata

Reserva Natural das Berlengas







### - IEK-LIFE PLAN 3. Optimize litter collection monitoring and disseminate best practices **Optimize litter collection monitoring:** ✓ The MSFD/OSPAR monitoring implemented in the project allowed mobilising and training field. operators who will continue the monitoring in the long-term. ✓ Will be enhanced by replication on other sites. **Disseminate best practices:** ✓ One transnational seminar will be organized 3 years after the project, an important event, gathering local, national and transnational structures involved in the project or its replication and continuation, will take place in France. It will enable participants (LIFE beneficiaries, target audience, stakeholders) to share best practices, to give feedback on the progress following the project, to meet new members to encourage a wider dissemination of results. The low footprint guide and maps designed during the project will be able to be downloaded by all and will be easily adapted for the other areas. 100 low footprints will be replicated elsewhere. A field and online training will be easily replicated elsewhere through the transfer of knowledge and the supports developed during the project. The associated beneficiaries will address requests on the training in order to facilitate their reproducibility in other areas. At least 40 additional stakeholders will be trained in the 3 countries.

## AFTER-LIFE PLAN

4. Evaluate the decrease of plastic waste at source by involving stakeholders (local authorities, producers and manufacturers)

### **Territorial evaluation and socio-economic impact:**

- ✓ The surveys and interviews deployed during the project will be the subject of a guide and summary to be used as a basis for anyone who wishes to carry out the same study. The guide produced will be available online after the project, allowing other areas to benefit from this experience.
- ✓ Beneficiaries undertake to promote sustainability by promoting environmentally respectful companies and supporting local economies.
- ✓ A follow-up study will be performed three years after the end of LIFE to measure the effects of the LIFE actions in the long-term.

### Litter collection points:

- ▼ The installation of marine litter bins on other areas than the pilot sites will be proposed based on the experiments carried out during the project.
- ✓ This will enable associated beneficiaries to easily replicate the initiative and monitor their impact on marine litter quantity.
  - **Dissemination of results and lessons to a targeted public** (holidaymakers, outdoor athletes, policymakers)

### **Awareness-raising:**

- The communication supports developed during the project will be distributed and used in events. Panels installed on pilot sites will be at least 10 years.
- Online supports as awareness-raising and technical videos will be available for at least 5 years on the project websites and will allow continuing dissemination with other audiences.
- ✓ Training and experience sharing conducted during the project will outlast Life SeaBiL via the connection of the participants.

### Communication and dissemination:

- The results and lessons learnt from the LIFE SeaBiL project will continue to be actively disseminated after the end of the project. The website will remain active for at least 5 years after the project, as well as the newsletter (1/year). At least one article about results will be published in national beneficiaries' magazines.
- Free access guaranteed to all resources on the website, in 4 languages: Guidelines to use seabirds as indicators, for an efficient network, to reduce waste at the source.
- ✓ The partnership holds the rights to the videos that will continue to be screened regularly. Another series of videos may be replicated.

Objectives	Related action of SeaBiL project	After-LIFE action (available in the 3 years following the project)	Category of the action	Links with potential projects	Potential sources of funding	Amount and duration of financing	Implication	Responsible entity	Ti	mefram	e
			Transnatio	onal actions					2026	2027	2028
SO1: Improve the	A1	Request exemptions for the next years in order to continue the actions and supply stranded networks	Replication	Interreg Atlantic Coasts	European Union & national funding	20,160 € (3 years)	LPO, SPEA, SEO, UCA	All	Х	Х	Х
	D4	Tools available in English disseminated & replicated in other EU countries (especially Malta & Greece)	Continuation	Interreg Atlantic Coasts	X national co-	28,800€	LPO, SPEA, SEO, UCA	SEO	x		
	B1	Online training tutorial to use the tool		LIFE SafeSeas		(3 years)	LPO, SEO, UCA	SEO	х		
		Using of tools in France, Spain and Portugal					LPO, SPEA, SEO, UCA	SEO	х	х	х
	P.O.	Low footprint guide available in English for replication and dissemination	Continuation	Interreg Atlantic Coasts	& national co-	45,240 € (3 years)	LPO, SPEA, SEO, UCA	LPO	х		
coordination of beach cleaning actions and the monitoring of stranded birds	B2	Bird risks-maps for other sites/countries and others bird species					LPO, UCA	LPO	х	х	
		Organization of training/meeting with other countries partners and other partnership sites		Interreg Atlantic Coasts			LPO, SPEA, SEO, UCA	LPO	х	х	x
		At least 100 low footprint beach clean-ups organized		Local initiatives	European Union		LPO, SPEA, SEO, UCA	LPO	х	х	х
	В3	Subtitled and translated online training available	Replication		& national co- funding	164,799 € (3 years)	LPO, SPEA, SEO, UCA	LPO	х		
		At least 40 stakeholders trained in Spain, Portugal and France					LPO, SPEA, SEO, UCA	LPO		х	
		Training included in partners catalogue for dissemination					LPO, SEO, UCA	LPO			х

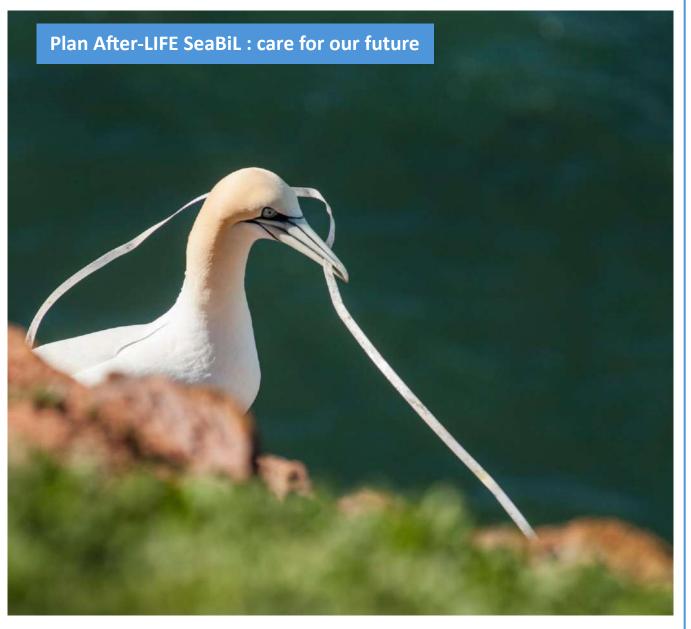
Objectives	Related action of SeaBiL project	After-LIFE action (available in the 3 years following the project)	Category of the action	Links with potential projects	Potential sources of funding	Amount and duration of financing	Implication	Responsible entity	TI	mefram	
			Transnatio	onal actions					2026	2027	2028
		Network active					LPO, SPEA, SEO, UCA	LPO	Х	Х	Х
SO1: Improve the coordination of beach cleaning actions and the monitoring of stranded birds		Wider network with at least 15 more structures			European Union & national co- funding		LPO, UCA	LPO		х	х
		Inclusion of others care centers in the network in France (to upgrade logistic and storage) and data collection improvement (Spain and Portugal)					LPO, SPEA, SEO, UCA	LPO	х	х	х
	B4	Extension of the existing network to various types of pressures (hydrocarbons, accidental bycatch, collision with wind turbines) to make it a useful monitoring and tracking complete tool				111,999 € (3 years)	LPO, SEO, UCA	LPO	х	х	
		Replication or similar network in other EU countries and on other partnership sites					LPO, SPEA, SEO, UCA	LPO	х	х	х
		Protocols shared in English for replication					LPO, SPEA, SEO, UCA	UCA	х		
SO2: Consolidate the		Tissue bank administration/maintenance					LIENSs	LIENSs	X	х	х
acquisition of knowledge on the impact of plastic waste on seabirds and define an indicator species for Good Environmental Status (GES)	B5	One article about results in national beneficiaries' magazines (60,000 readers)	New	Interreg Atlantic Coasts	European Union & national co- funding	123,300 € (3 years)	LPO, UCA	UCA		х	х
		Prioritize research on the sub-lethal effects of plastic ingestion, using biomarkers and models to assess the broader impact on seabird health and reproduction			runung		LIENSs, UCA	UCA		х	

Objectives	Related action of SeaBiL project	After-LIFE action (available in the 3 years following the project)	Category of the action	Links with potential projects	Potential sources of funding	Amount and duration of financing	Implication	Responsible entity	Ti	mefram	е
	Transnational actions 202										2028
	B5	Further research into plastics analysis (types of polymers, toxicology,): potential thesis in collaboration with the University of La Rochelle					LPO, LIENSs, UCA	UCA	x	х	х
SO2: Consolidate the		Provide datas for the international tissue bank	Continuation	Interreg Atlantic Coasts		120,000€	LPO, SPEA, SEO, UCA	All	х	х	х
acquisition of knowledge on the impact of plastic waste on seabirds and define an indicator species for Good Environmental Status (GES)	B6	At least 200 more analyses and completion of the tissue bank		Berlengas - Santuário	European Union & national co-		SPEA, LIENSs, UCA	UCA		х	х
	50	Identification of indicator species in remaining range of this sub-region and other MSFD sub-regions/Outermost regions	Continuation	para aves marinhas (Portuguese funded project)	funding	(3 years)	LPO, LIENSs, SPEA, SEO, UCA	UCA	x	x	х
	В7	Workshop(s) with new sites and partners	Replication	Interreg Atlantic Coasts	European Union & national co- funding	24,576 € (3 years)	LPO, UCA	LPO		х	
SO3: Improve the identification of marine litter sources to optimize the management and prevention	В8	Continue fostering collaboration among Portugal, Spain, and France to share data, methodologies, and best practices in marine litter monitoring and seabird conservation	Replication	Interreg Atlantic Coasts	European Union & national co- funding	5,760 € (3 years)	LPO, SPEA, SEO, UCA	LPO	Х	х	Х
		Marine litter bins developed on other sites in Spain			European Union		LPO, UCA	UCA	х	х	
of waste in the N2000 areas	В9	Action plan for at least 1 other site	Continuation	Local initiatives	& national co-	12,5/6€	LPO, UCA	UCA		х	х
		Guide online and workshop organized with local authorities of other sites		funding	(3 years)	LPO, UCA	UCA	х	х	х	

Objectives	Related action of SeaBiL project	After-LIFE action (available in the 3 years following the project)	Category of the action	Links with potential projects	Potential sources of funding	Amount and duration of financing	Implication	Responsible entity	Ti	mefram	
			Transnatio	onal actions					2026	2027	2028
SO4: Raise-awareness amongst the general public on the issue of marine litter and seabirds in the N2000		Interactive stands, school presentations, waste collection			European Union & national co-	125,529 € (3 years)	LPO, SPEA, SEO, UCA	SEO	х	x x	х
	B10	Raise awareness of plastic pollution in high schools and colleges by training future maritime professionals in best practices	Replication	Interreg Atlantic Coasts			LPO, SPEA, SEO, UCA	SEO	х	х	x
		Seminars with veterinary and biology students about seabird identification and stranding reporting through icao app			funding		LPO, SPEA, SEO, UCA	SEO	х		х
areas		At least 50000 people made aware of the issues/project		Interreg Atlantic Coasts	European Union	1 64,827 € (3 years)	LPO, SEO, UCA	LPO	х	х	х
	B11	Making water sports/coastal sports	Continuation	LIFE Biodiv'sport	& national co-						
	DII.	enthusiasts and recreational fishers advocates for plastic pollution and biodiversity preservation	Continuation	LIFE SafeSeas	funding		LPO, SEO, UCA	LPO	х	х	х
	01	Monitoring to continue collection of datas about Common Guillemot, Atlantic Puffin, Black-legged	O- atiati	Interreg Atlantic Coasts	· ·	16,800€	LDO 0054 050 U04				
Assess the impact of the project	C1	Kittiwake, Northern Gannet and Northern Fulmar : analysis report from network and care centers	Continuation	LIFE SaFESeas	& national co- funding	per year (50,400 €)	LPO, SPEA, SEO, UCA	UCA	Х	Х	X
	C2	Monitoring the impact of marine litter management: analysis report from	Replication	Interreg Atlantic Coasts	European Union & national co-	16,800 € per year	per year LPO, SEO, UCA	UCA	Х	x	X
	02	tidal bins datas and others clean-ups events		LIFE SaFESeas	funding	(50,400 €)			,	,	~

Objectives	Related action of SeaBiL project	After-LIFE action (available in the 3 years following the project)	Category of the action	Links with potential projects	Potential sources of funding	Amount and duration of financing	Implication	Responsible entity	T	mefram	е
Transnational actions									2026	2027	2028
		Website still active					LPO, SPEA, SEO, UCA	LPO	Х	Х	х
		1 newsletter/year			European Union		LPO, SEO, UCA	LPO	Х	х	х
Communication and dissemination	D1	50000 people aware of the project/issues targeted	Continuation	Interreg Atlantic Coasts	& national co- funding	20,160 € (3 years)	LPO, SPEA, SEO, UCA	LPO	х	х	х
		Awareness short video with at least 10000 views			runung		LPO, UCA	LPO	х	х	
	D2	Align marine litter monitoring efforts with national and European policy frameworks to ensure that research informs policy decisions	Replication	Interreg Atlantic Coasts	European Union & national co- funding	40,396 € (3 years)	LPO, UCA	UCA	х	х	х
		One transnational seminar organized gathering at least 100 actors					LPO, LIENSs, SPEA, SEO, UCA	LPO		х	
		Progress meeting once a year (videoconference)					LPO, LIENSs, SPEA, SEO, UCA	LPO	х	х	х
Good implementation of the project	E1.1 & E1.2	KPI filled 5 years after the project	New	Interreg Atlantic Coasts	European Union & national co- funding	88,875 € (3 years)	LPO, LIENSs, SPEA, SEO, UCA	LPO			х
	E1.2	Monitoring and follow-up of negotiations and implementation of the international treaty to combat plastic pollution in France, Spain, and Portugal					LPO, SEO, UCA	LPO	X	x	Х

**TOTAL BUDGET: 1 097 797€** 



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### Beneficiaries













### **Financial partners**











