

The LIFE programme

the **CONVIVE** LIFE

This is an EU financial instrument created in 1992, the current objective of which is to contribute to the sustainable development and the attainment of the objectives and goals of the Europe 2020 Strategy, as well as the relevant strategies and plans of the European Union in environmental and climate- related matters. It has been allocated a budget of 3.4 billion euros.

https://ec.europa.eu/easme/en/life

The project entitled "Integration of human activities in the conservation objectives of the Natura 2000 Network in the littoral of Cantabria: CONVIVE LIFE" is a European project 60% co-financed by the European Commission through the LIFE programme, which has been allocated a total budget of 1.325.680 euros.

This project, carried out during the 2015-2020 period, has been developed by 6 beneficiary partners: Regional Ministry of Rural Affairs, Fisheries and Food of the Government of Cantabria, Arnuero City Council, Constructora de Obras Públicas San Emeterio, S.A. (COPSESA), SEO Birdlife, Aves Cantábricas S.L. and Fundación Instituto de Hidráulica Ambiental de Cantabria (IHCantabria).

The **CONVIVE** LIFE **Objectives**

Project

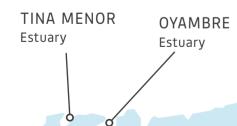
Restoration of the favorable status of the habitats

Promotion of a participative approach Improvement of the conservation status of bird life

Promotion of sustainability

Reduction of direct pressures

Areas of action in Cantabria (Spain)





The Council Directive 92 /43 /EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora defines the various types of natural habitats of community interest as the terrestrial or aquatic areas whether entirely natural or semi-natural that:

/ Are in danger of disappearance in their natural range

/ Have a small natural range

/ Present outstanding examples of one or various biogeographical areas of the European Union.

Main restored **habitats**

Habitat 1330 Atlantic salt meadows

Habitat 1420 Mediterranean and thermo-Atlantic halophile scrubs

Habitat 1150 Coastal lagoons







COMMON SPOONBILL Platalea leucorodia



THE PIED AVOCET Recurvirostra avosetta



THE PURPLE HERON

Ardea purpurea

THE LITTLE BITTERN Ixobrychus minutus

Species for which actions have been taken

The EU Directive also defines species of community interest as the flora or fauna species that are:

/ Endangered

/ Vulnerable

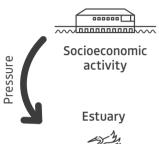
Rare

/ Endemic (belong to a specific geographical area)

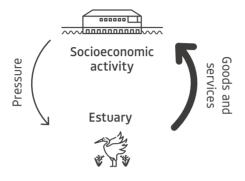


Coexistence

The CONVIVE LIFE project seeks COEXISTENCE between human activities and the conservation of estuarine ecosystems through the search for solutions agreed with the main actors in the territory (e.g. municipalities)



Convive LIFE restoration actions

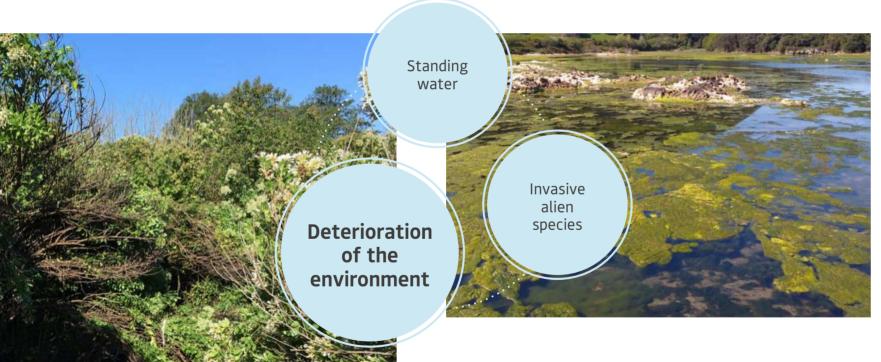


/ Social awareness

/ Sustainable management

/ Economic activity





Improvement of the services provided by the estuaries

New alternatives of use

Preservation of habitats and species

Restoration actions

1 / Removal of dams

2 / Removal of invasive alien species

3 / Improvement of water quality

4 / Algae control



Control of invasive alien species

Baccharis halimifolia

(groundsel-bush)

Recovery of estuarine areas invaded by the *Baccharis* bush original from America

Total area removed (7,5 ha)

Joyel

0,06 ha

Victoria

2,1 ha

Tina Menor 4 ha Ría del Capitán

1,3 ha

Baccharis cover area (ha)

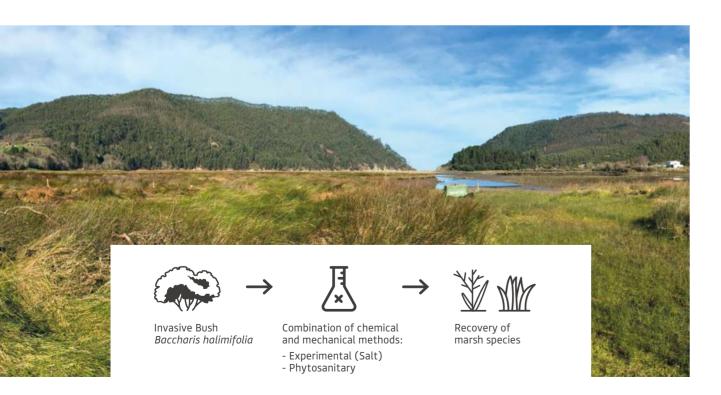
Tina Menor 8,97 / 6,32 Ría del Capitán

2,67 / 1,39

0,39 / 0,88 **Victoria** 9,97 / 3,17

Joyel

*Before / after





Control of

algae proliferation

Removal of algae proliferation in the Santa Olaja mill lagoon (Joyel)

9 removal campaigns



Tons removed 143 tons (*Ulva* sp. and *Rhizoclonium* sp.)

Circular economy

Reuse of 50% of the removed material

/ Before





/ After



Restoration of the

tidal dynamics

Recovery of estuarine areas gained to the sea and confined due to the presence of dams

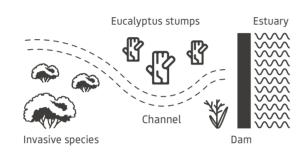
Capitan Ria **Oyambre**

Partial removal of the dam, leaving a pathway at low tide.

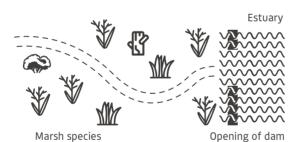
No. of entities enquired: 5 Dissemination events: 1 (Valdáliga)

Main outcomes

- · Improvement of water renovation and quality
- · Increase of salinity
- · Changes in the saltmarsh communities
- · Reduction of 1.3 ha of Baccharis
- · Changes in geomorphology









Santa Olaja mill pond in Joyel

Opening of the cutwaters, installation of 2 new flapgates and sustainable management of the gates.

No. of entities enquired: 6 Dissemination events: 1 (Arnuero)

Issues

- \cdot Cutwaters totally walled
- · Water stagnation
- · Water inlet restriction
- · Green algae proliferation

Main outcomes

- · Improved water renovation
- · Reduction of algae proliferation
- · 100% of mill visits
- · Improvement in the social perception of the state of the lagoon







Joyel channel

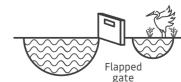
Cleaning of the channel and fitting of a flapped gate.

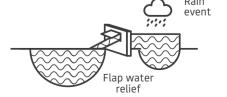
No. of entities enquired: 6 Dissemination events: 1 (Arnuero)

Main outcomes

- \cdot Stabilisation of the water layer
- · Increase of salinity









Improvement of the water quality through

Nature - based solutions (NBS)

Experimental treatment for the improvement of water quality in estuarine areas near sources of spillage.

No. of entities enquired: 3 Dissemination events: 1 (Valdáliga)

Tina Menor fish farm

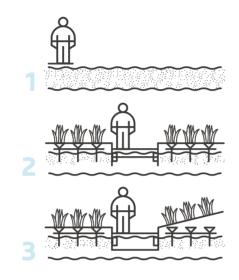
Experimental green filter system

Species used

- · Juncus maritimus
- · Halimione portulacoides

Size of filter

- · 132 sq. metres of green filter
- · Over 600 transplanted *Juncus* and Halimione plants



Green filter

Main outcomes

- · > 30% reduction of suspended solids
- · > 40% average reduction of phosphates
- · > 40% average reduction of inorganic nitrogen





Restoration of

goods and ecosystem services

The greater the biodiversity, the more varied the ecosystem services favouring the stability in the ecosystem.

Improvement of the ecosystem services

Supply service



Regulation and maintenance service



processing

protection















and religious



Ecotourism

Water







Attained

N/A

objectives

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		ya.	
1			-

Tina Menor

Oyambre

Victoria

N/A

Improvement of conservation status

Joyel

N/A

Habitat 1150



Improvement of conservation status

Improvement of conservation status

N/A

Improvement of conservation status

Habitat 1330



Improvement of conservation status

Improvement of conservation status

Improvement of conservation status

N/A

Habitat 1420



30% reduction

50% reduction N/A

68% reduction

Baccharis



N/A

Lagoons

management plan

- Sonrionansa S.L.

Restoration of connectivity

Improvement of connectivity

N/A

Connectivity



Bird species

Lagoons management plan - Natural Park

Lagoons management plan - Natural Park







Promotion of the

participative approach

to optimise restoration activities

Social awareness



12 CO-EDUCA workshops

Training people in the value of estuaries and the importance of sustainable management

- · 253 school students
- · 21 teachers

2 CONVIVE NATURA events

Raising consciousness on the sustainable management of estuaries

- · 37 attendees
- · 2 towns

Photography Contest

Defence and preservation of nature

- · 91 photographs
- · 6 exhibitions in 6 towns

Social perception



Local surveys

Evaluation of the socio-economic impacts of the project

Knowledge exchange



Networks

- · Surveys on 39 sites in 7 countries
- 17 Natura 2000 sites visited (The Netherlands, Belgium, Portugal and Spain)
- · 6 experience exchanges
- · Contact with LIFE projects

1 COOPERA-NATURA event

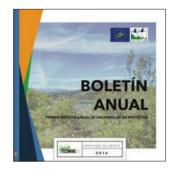
Raising awareness of the work carried out in the project and opening a discussion forum.

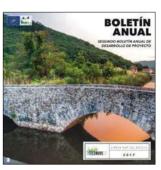
- · 47 attendees
- 18 national bodies and non-Government organisations

Project

dissemination

Annual bulletins









Web page and social media

Twitter

#ConviveLIFE - Accumulated audience 96,000

Web

www.convivelife.es - Accumulated audience 151,247 visits

Event involvement

5 congresses/ national workshops5 congresses/ international workshopsNetwork building with other countries

Acknowledgements

Municipality of Valdáliga Sonrionansa, S.L.

General Directorate of the Coast and the Sea (Government of Spain)

Board of Trustees of the Santoña, Victoria and Joyel Marshes Natural Park

















