



**life**  
**fluvial**

LIFE16 NAT/ES/000771



Action E.2. Dissemination and raising-awareness programme

# newsletter **no.1**

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IMPROVEMENT AND SUSTAINABLE MANAGEMENT  
OF RIVER CORRIDORS  
OF THE IBERIAN ATLANTIC REGION

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life fluvial project presentation.....	4
life fluvial project presentation in Mieres.....	4
life fluvial project presentation in Ribadeo.....	5
life fluvial project presentation in Ponte de Lima.....	6
life fluvial project presentation in Vegadeo.....	7
life fluvial project presentation in Coirós.....	8
preparatory actions.....	9
diagnosis and territorial analysis.....	9
technical planning of restoration actions.....	10
land purchase.....	11
land expropriation in Ribadeo.....	11
progress in restoration actions.....	12
work in A Lagoa do Rei.....	12
Work in the enclave River Río Miño-Rábade.....	13
work in the Ría de Ribadeo-Ría del Eo.....	14
dissemination and raising-awareness.....	15
presentation to environmental groups in the Asociación Mariñas-Betanzos.....	15
life presentation in Ribadeo.....	15
journey "Management and control of invasive alien species".....	16
participation in the presentation of Life Agueda Project.....	16
VIII congress of the World Network of Islands and Coastal Biosphere Reserves.....	17
I Seminar Emalcsa-UDC Chair.....	17
celebration of European Natura 2000 Day.....	18
water game Emalcsa.....	19
congress "SER Europe Conference 2018 restoration in the Era of Climate Change".....	19
open science Cambre 2018.....	20

European Researchers' Night 2018 .....	20
participation in the Life Convive seminar .....	21
collaboration with the LIFE Capacity Building project .....	22
technical seminar on fluvial ecosystems .....	22
technical seminar on management of protected areas .....	23
<b>partnership coordination .....</b>	<b>24</b>
coordination meeting .....	24
partner's meeting .....	25
<b>follow-up committee .....</b>	<b>26</b>
1st follow-up commission in Galicia .....	26
1st follow-up commission in Asturias .....	27



# lifefluvial



## life fluvial project presentation

### life fluvial project presentation in Mieres



On July 25th, 2017, at the headquarters of the INDUROT-Uniovi, in Mieres, the first presentation of the project took place.

The Rector of the University of Oviedo, Santiago García Granda attended the opening ceremony. He was accompanied by the director of INDUROT, Jorge Marquinez, and the president of InterEo and Mayor of Castropol, José Ángel Pérez García.



## life fluvial project presentation in Ribadeo

On October 24th 2017, the Plenary Hall of Ribadeo City Council hosted the presentation in the territory of the LIFE FLUVIAL project. The host of the event, the City Council of Ribadeo, which is part of the project partnership, will be responsible for the implementation of the land purchase in the ZEC Rio Eo-Galicia ES1120002 and ZEPA Ribadeo ES0000085.



The opening and welcome of the event was attended by the Mayor of Ribadeo, Fernando Suárez Barcia, the Vice Chancellor for Scientific and Technological Development of the Lugo Campus of the USC, Andrés Barreiro Lois, the General Director of Biodiversity of the Principality of Asturias, Manuel Calvo, as well as the directors of INDUROT, Jorge Marquínez García, and IBADER, Pablo Ramil Rego.





## life fluvial project presentation in Ponte de Lima

In conjunction with the celebration of World Wetlands Day, on February 2th 2018, the project was presented at the Environmental Interpretation Center of the Lagunas de Bertandios and San Pedro de Arcos (Ponte de Lima, Portugal).

The presentation ceremony was complemented with a guided tour of the area of action in the Portuguese territory (LIC Lima river PTCON0020), in order to know its most outstanding values and conservation proposals.





## life fluvial project presentation in Vegadeo

The Félix Menéndez auditorium of the Vegadeo House of Culture hosted the presentation of the project at the territory of the Rio Eo, Oscos and Terras de Burón Biosphere Reserve on February 20th 2018.

The Mayor of Castropol and president of the InterEo Association, José Ángel Pérez García, opened the event, which was attended by representatives of local administrations as well as the rest of the members of the LIFE FLUVIAL partnership.





## life fluvial project presentation in Coirós

On March 22th, coinciding with the World Water Day, the presentation of the project in the Mariñas Coruñesas e Terras do Mandeo Biosphere Reserve took place in the facilities of the Classroom of Nature of Chelo, in the municipality of Coirós (A Coruña). A total of 39 persons, belonging to both LIFE FLUVIAL partnership entities, and representatives of the administrations local, supramunicipal and autonomic as well as different relevant stakeholders of the territory the event, held in the facilities of the Classroom of Nature of Chelo, in the municipality of Coirós (A Coruña), attended to this event.



This journey involved the participation and involvement of the Life Águeda (LIFE16 ENV/PT/000411) and Life Water Way (LIFE16 ENV/ES/000533) projects. José Antonio Santiso (president of the Mariñas Coruñesas Biosphere Reserve and mayor of Abegondo), Francisco Quintela (Mayor of Coirós), María Gómez (Emalcsa's board of directors) and Jorge Marquínez (LIFE FLUVIAL project director) were in charge of the presentation.





## preparatory actions

### diagnosis and territorial analysis



During the months of March to December 2018, INDUROT (University of Oviedo) carried out the preparatory actions and the corresponding field work. During the field trips, a geomorphological cartography was carried out and soil samples were taken for its subsequent analysis. The research team mapped every enclave defining different units of vegetation and identified the invasive alien species and the alders affected by *Phytophthora* spp.





## technical planning of restoration actions

IBADER and INDUROT staffs, with TRAGSA support, have been jointly developing the technical planning documents for the implementation of the restoration actions in the areas of action in Galicia and Asturias respectively. Meanwhile, the University of Lisbon has been in charge of designing the works in the town of Ponte de Lima (Lagunas de Bertandanos y San Pedro de Arcos).



Fieldwork has been carried out, including surfaces and distances measures, diameters data collection and height of tree-invading species as well as establishment of routes and road recognition.

On the other hand, the complementary works of the cabinet included the planimetry of the areas of action, the planning of the works and the mapping of the tasks to be executed.

Finally, a Contingency Plan has been drawn up in order to anticipate the solutions to be adopted regarding the possible risks and unforeseen risks that may arise during the implementation of the conservation actions.





## land purchase

### land expropriation in Ribadeo

Within the actions envisaged by LIFE FLUVIAL, the acquisition, through expropriation, of land of private ownership in the municipality of Ribadeo is included. Specifically, there are 33 plots with a total surface area of 44.5 hectares within the scope of the Natura 2000 Network (ZEC Río Eo-Galicia ES 1120002, ZEPA Ribadeo ES0000085).



The current use of the plots is mostly forestry, with most of the area occupied by plantations of *Eucalyptus globulus*.

In mid-December, the process of public exhibition of the expropriation project ended, and it is currently awaiting the pertinent occupation authorization from the Xunta de Galicia for the start of actions to recover the habitats of the environment.



## progress in restoration actions

### work in A Lagoa do Rei

On October 15th 2018, the conservation actions of the A Lagoa do Rei enclave (Rábade, Lugo), located in the ZEC Parga-Ladra-Támoga (ES1120003) began. The restoration tasks began with the elimination of exotic and invasive species, to improve the naturalness of the ecosystem, which will be continued by adapting the margins of the lagoon (for the improvement of the ecotonic means around it). Finally, restoration will be carried out with native species to improve the state of conservation of the 91E0\* habitat.



The action is being developed by TRAGSA, an associate beneficiary of LIFE FLUVIAL, with the scientific and technical advice of IBADER.



At the moment, more than 250 individuals of *Populus × canadensis* and 20 individuals of *Pinus radiata* have been eliminated.

The works have always been developed under low impact criteria, in order to avoid environmental conditions and to facilitate the conservation of the key components of the spaces.

## Work in the enclave River Río Miño- Rábade

As in the previous case, on November 8th, the technical teams of TRAGSA and IBADER moved to the fluvial corridor of the River Miño on its way through Rábade (ZEC Parga-Ladra-Támoga ES1120003) to start acting in another of the locations of the project.



The action has begun with the elimination of exotic and invasive species, as well as with the removal of dead alders by *Phytophthora* spp. Subsequently, the riparian vegetation will be restored with the typical species of habitat 91E0 \*. This action has completely been carried out using manual means, since the riverbank is accessed through a river path.

The eliminated wood of the exotic woody species, both in the previous case and in this one, has been ceded with social purposes to local residents.





## work in the Ría de Ribadeo-Ría del Eo



On 26th November, LIFE FLUVIAL began the first phase of work in Ribadeo, which involved the elimination of invasive species of herbaceous and low tree species.

Since the project does not use chemical methods in the control of invasive species, manual means were used with portable machines, which allow selective action, more suitable with the fragility of Natura 2000 protected areas. This first phase was carried out in the stretch between the Ensenada de Vilavella and the Molino de las Aceas.

The main invasive species were: *Bidens aurea*, *Zantedeschia aethiopica*, *Delairea odorata* (sin. *Senecio mikanioides*), *Oxalis pes-caprae*, *Helichrysum petiolare*, *Eucalyptus globulus*, *Acacia melanoxylon* and *Robina pseudoacacia*.

The tasks of this first phase, carried out by TRAGSA under the technical direction of IBADER, were completed on 14th December.





## dissemination and raising- awareness

### presentation to environmental groups in the Asociación Mariñas-Betanzos

On February 14th, at the municipality of Abegondo (A Coruña) and under the Mariñas-Betanzos Association organization, the LIFE Project was presented to the Environmental Board of the Association, which is composed of the main environmental groups that operate in the territory. The objective was to obtain the opinion of these entities regarding the actions to be carried out by LIFE FLUVIAL Project as well as to obtain their collaboration and involvement in its implementation.



### life presentation in Ribadeo

On March 23th, an informative day on Biosphere Reserves was held at the Hernán Naval Municipal Auditorium in Ribadeo (Lugo). IBADER and INDUROT participated with the respective presentation of the LIFE BACCATA projects (LIFE15 NAT/ES/000790) and LIFE FLUVIAL (LIFE16 NAT/ES/000771).



## journey “Management and control of invasive alien species”

Within the framework “Entrepreneurship in the Biosphere Programme”, with the support of the Provincial Council of A Coruña, the Mariñas-Betanzos Association organized on April 13th a conference concerning the impact of invasive alien species and the prioritization of actions for a correct management strategy. This event took place at the Juan Lembeye Nature Hall (Culleredo municipality) and was addressed to Professionals from the agroforestry sector as well as the general public. A total of 22 people attended. During the journey, it was talk about the implementation of the LIFE FLUVIAL project and its outstanding component in relation to the elimination of invasive alien species.



## participation in the presentation of Life Agueda Project

Intervention on May 18th 2018 of Jorge Marquín, director of INDUROT and LIFE FLUVIAL, at the Chamber of Commerce of Águeda (district of Aveiro, Portugal) during the presentation session of the LIFE ÁGUEDA project (LIFE16 ENV/PT/000411).



## VIII congress of the World Network of Islands and Coastal Biosphere Reserves

Within the theme "Management of biodiversity, resilience and restoration of ecosystems" the Association Mariñas-Betanzos participated in the congress of the World Network of Islands and Coastal Biosphere Reserves, that took place in Isla de Menorca between May 22th and 26th. In this congress, the Association Mariñas-Betanzos gave a presentation and submitted an article about the LIFE FLUVIAL Project that was included in the minutes and reports of the Congress.



## I Seminar Emalcsa-UDC Chair



Within the framework of this first seminar of the Emalcsa-UDC Chair, May 31th 2018, the Mariñas-Betanzos Association gave a presentation about the role of the Mariñas Coruñesas e Terras do Mandeo Biosphere Reserve in the river basins of its territory. There was a special mention for the areas included in the Natura 2000 Network as well as the actions programmed by the LIFE FLUVIAL project.



## celebration of European Natura 2000 Day

On May 22th 2018, in the framework of the celebration of the Natura 2000 Network Day, the IBADER organized several activities within the LIFE FLUVIAL and LIFE BACCATA projects.

In the morning we visited one of the areas of action of LIFE FLUVIAL, specifically the Lagoa do Rei (municipality of Rábade, ZEC Parga-Ladra-Támoga ES1120003). Municipal representatives, environmental associations, researchers from the Lugo Campus (USC) and partners of both LIFE projects attended.



In the afternoon there was an event in the "Luciano Sánchez García" room in the IBADER that, through a series of interventions, allowed the participants to approach the efforts carried out in order to benefit the spaces protected by the Natura Network 2000.

## water game Emalcsa

In collaboration with the Municipal Water Company of A Coruña (Emalcsa), during the course 2017-2018, the Association Mariñas-Betanzos has been carrying out a didactic concerning the water cycle in the area of the city of A Coruña. The game targets 5th and 6th grade primary school pupils in schools in that territorial area.

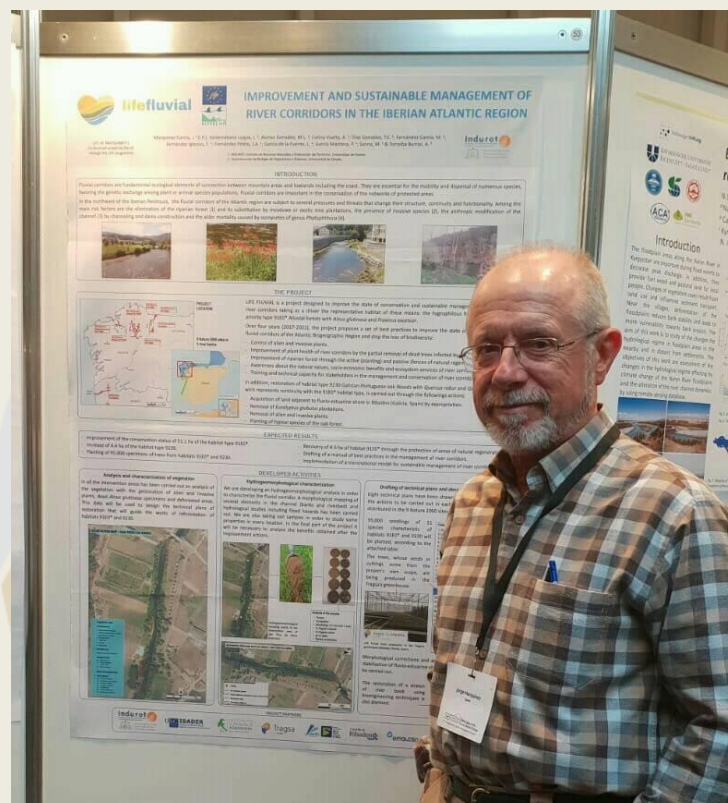


Among the questions collected by this question and answer game, for the academic year 2018-2019, the incorporation of a specific block linked to the theme proposed by LIFE FLUVIAL is planned. In the final phase of the competition, held on June 1th at the Water House of A Coruña, this proposal was presented accompanied by a canvas of large dimensions that will be used as a game board.

## congress “SER Europe Conference 2018 restoration in the Era of Climate Change”

Between September 9th and 13th 2018, the international conference “SER Europe Conference 2018 Restoration in the Era of Climate Change” was held in Reykjavik (Iceland). It brought together different international experts on diverse topics such as biodiversity conservation, mitigation of climate change or the fight against desertification. Within the framework of this congress, the INDUROT presented the poster “Improvement and sustainable management of river corridors of the Iberian Atlantic region”.

-Jorge Marquín-, director of INDUROT and LIFE FLUVIAL Project





## open science Cambre 2018

Cambre Open Science (OSC) is a science event organized by the club XenTD100cia in collaboration with the city of Cambre in order to connect the population and the educational and scientific world.

Mariñas Coruñesas e Terras do Mandeo Biosphere Reserve organized a stand in this event (September 15th and 16th) where space for specific information concerning LIFE FLUVIAL was available. In addition, work was carried out to promote school workshops and their expected contents within the Project framework.



## european Researchers' Night 2018

On September 28th, LIFE FLUVIAL project was presented in Avilés (Asturias) at the European Researchers' Night 2018 celebrated in the University of Oviedo. European Researchers' Night is an event of scientific dissemination that brings science to society, especially to young audiences.

Throughout the day, a program of recreational activities on river corridors was developed by INDUROT team.





## participation in the Life Convive seminar

During 25th and 26th October, the Mariñas Betanzos Association participated in the Networking Seminar "Management and Handling of Coastal Wetlands in the Framework of LIFE Projects", organized within the activities of the LIFE + CONVIVE project. Different LIFE projects with a common interest in the management of coastal wetlands participated in these conferences.



Marsh of Joyel. Soano (municipality of Arnauero). Cantabria

This seminar aims to contribute to the improvement of coastal wetlands and help to define restoration techniques, hydrological management, plans to increase biodiversity and fight against invasive species.



## collaboration with the LIFE Capacity Building project

On December 6th and 7th, the Event of Closure of the National Training Project - LIFE14 CAP / PT / 000004, coordinated by the Portuguese Environment Agency took place in the Auditorium of L-Building of IAPMEI - Lumiar Campus. The project main objective is to improve Portuguese participation in the LIFE program and increase the number and quality of the projects presented annually. The event includes oral sessions where the LIFE FLUVIAL Project was represented by Pedro Arsenio, member of the Portuguese team of Instituto Superior de Agronomia.



## technical seminar on fluvial ecosystems

On December 4th, a Technical Seminar was held in the Cactus Building of the Lugo Campus. It was organized by IBADER in order to convey to the population the important role played by fluvial ecosystems in the conservation of our biodiversity. This act also allowed raising public awareness about the conservation of our natural and cultural heritage associated with river corridors and wetlands, as well as the ecosystem services provided by them.





## technical seminar on management of protected areas

On December 11th, another Technical Seminar organized by IBADER in the Cactus Building of the Lugo Campus tried to convey to the population the most important aspects concerning conservation and management of protected areas. This act allowed raising public awareness about the conservation of our natural and cultural heritage, as well as the role that natural spaces play in promoting the sustainable territorial development.



The event included a presentation of the LIFE FLUVIAL project by Javier Ferreiro da Costa, who explained to the audience the objectives and expected results and indicating the progress made so far.



## partnership coordination

### coordination meeting

As coordination meetings of the project partnership, it is worth mentioning the following dates: 17/11/2017 (Mieres, Asturias); 05/11/2018 (videoconference); 06/21/2018 (videoconference) and 04/12/2018 (Lugo).



In addition, a control visit by Neemo-IDOM, responsible for the monitoring of the project before the LIFE Program of the European Union, took place at the headquarters of INDUROT (Mieres, Asturias) on March 21, 2018.





## partner's meeting

On December 14th, the associated beneficiaries EMALCSA, Asociación Mariñas-Betanzos and IBADER, held a meeting at the ETAP of A Telva (Cambre, A Coruña) with the purpose of initiating the planning of the restoration work to be carried out in the ZEC Embalse de Abegondo-Cecebre (ES1110004).



The meeting allowed to take the first steps to the design of the restoration actions in a coordinated way with the regulation of the dam to the needs of water supply.

## follow-up committee

### 1st follow-up commission in Galicia

LIFE FLUVIAL project held its 1st Follow-up Commission in Galicia on Tuesday 11 December. The meeting, organized by the beneficiaries IBADER and Asociación Mariñas-Betanzos, was held at the Casa Habanera facilities in Guitiriz (Lugo).

The contents developed in the first part of the meeting made it possible to bring the progress of the project up to date to all the competent bodies and other agents involved in the management of the river corridors.



During the second part of the day, the project locations objects of conservation actions throughout 2018 were visited: Río Miño and A Lagoa do Rei in Rábade as well as the Parga River in Guitiriz.





## 1st follow-up commission in Asturias



For its part, the 1st Follow-up Commission for the Asturias area was held at the Casa de la Cultura de Vegadeo on December 13.

In the course of the day the actions carried out in the Ría de Ribadeo-Ría del Eo were detailed and evaluated, as well as the tasks that are scheduled in the framework of LIFE FLUVIAL.

The information and follow-up directed to the organisms and entities involved in the management of the territory continued with a guided visit to enclaves in which LIFE FLUVIAL project will act with restoration works, in particular in the Lagunas de Arnao and Villadún (municipality of Castropol).





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