



**Interreg**  
España - Portugal



UNIÓN EUROPEA  
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Fondo Europeo de Desarrollo Regional  
Fundo Europeu de Desenvolvimento Regional



**Iberian Centre for  
Research and Forest Firefighting**



# IBERIAN CENTRE FOR RESEARCH AND FOREST FIREFIGHTING (CILIFO)

[www.cilifo.eu](http://www.cilifo.eu)



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**LUCHA CONTRA EL  
CAMBIO CLIMÁTICO**

The project CILIFO (0753\_CILIFO\_5\_E) is framed within the Thematic Objective 5 of the POCTEP Programme: to promote the adaptation to climate change within all sectors.

It tackles the Programme's investment priority 5B: to promote investment in order to address specific risks, to guarantee adaptation in case of natural disasters and to develop disaster management systems.

The project's length is three years (from 01/01/2019 to 12/12/2021).

It counts with a total budget of € 24.6 million, 75 % of which is funded by the Cross-border Cooperation Programme Interreg V-A Spain Portugal-Interreg POCTEP (2014-2020).

Cross-border Cooperation Programme Interreg V-A Spain Portugal-Interreg POCTEP (2014-2020).

[www.poctep.eu](http://www.poctep.eu)



## OBJECTIVES

1. To strengthen and combine the cooperation, the operating procedures, and the training between the Forest Fire Preventing and Extinguishing devices (FF) in the cooperation area of the Alentejo-Algarve-Andalusia Euroregion.
2. To promote the creation of long-lasting and quality employment in the area and to reduce the economic cost of forest fires through the creation of a rural economy linked to the landscape.
3. To improve the response capacity of public administrations and authorities to forest fires within the three participating regions.



## ACTIVITIES

**1** | STRENGTHENING  
OF COOPERATION  
INFRASTRUCTURES

**2** | TRAINING,  
CREDENTIALS  
AND PROTOCOLS

**3** | AWARENESS  
PLAN

**4** | DEVELOPMENT  
AND INNOVATION  
PROGRAMME

**5** | MANAGEMENT AND  
COORDINATION

**6** | COMMUNICATION

# ACTIVITIES

## **A0 – Preparatory phase of the project**

### **A1 – Strengthening of cooperation infrastructures**

Action 1.1. Creation of the CILIFO Centre.

Action 1.2. Infrastructure Endowment, Rehabilitation and Improvement.

### **A2 – Training, credentials and protocols**

Action 2.1. Training Plan for employees within the forest fires emergency sector.

Action 2.2. Accreditation for operational commands.

Action 2.3. Joint protocols Alentejo-Algarve-Andalucía.

### **A3 – Awareness Plan**

Action 3.1. Primary and Secondary Schools.

Action 3.2. Politicians and legislators, journalists and reporters, landscapers and architects, and entrepreneurs from the firefighting sector.

Action 3.3. Tourists, society in fire risk areas within an urban-forest interface society at large.

### **A4 – Development and Innovation Programme**

Action 4.1. Research aimed at deepening scientific knowledge and generating operational applications on forest fire risk analysis and management.

Action 4.2. Research aimed at advancing scientific knowledge and generating operational applications on prescribed fire.

Action 4.3. Analysis of the dynamics and consequences of fires on ecosystems in order to prevent and predict post-fire effects and to improve restoration.

### **A5 – Management and coordination**

Action 5.1. Management, coordination and decision-making mechanisms.

Action 5.2. Operational structure.

Action 5.3. Audit trail and payment requests.

### **A6 – Communication**

Action 6.1. Project start-up and closure seminars.

Action 6.2. Information and communication plan and dissemination and promotional kit.

Action 6.3. Exploitation and capitalization of results.



## RESULTS

- 1** Creation of the Iberian Centre for Research and Fight Against Forest Fires (CILIFO) and the accelerator Firefighting Open Innovation Lab – CILIFO.
- 2** Design and implementation of a Cross-border Training Plan for the prevention and extinction of forest fires, based on the acquisition of skills and lifelong learning by the fire extinction operations in Spain and Portugal.
- 3** Design and implementation of a joint Forest Fire Awareness Plan.
- 4** Design and implementation of a cross-border programme for research and innovation in the fight against forest fires counting with the participation of researchers from all regions.
- 5** Design and implementation of a transversal subject on forest fires in schools of the three regions.

# MAIN PRODUCTS



## Infrastructures:

- Rehabilitation of the place intended to be CILIFO's Centre.
- Catalogue of innovative companies and technology on prevention and extinction of forest fires, and mitigation and adaptation to climate change.



## Awareness:

- Including a transversal syllabus on forest fires in the educational system.
- Updating materials for dissemination purposes and raising awareness.
- Providing a kit of materials that raise awareness about the forest fires issue.
- Designing a plan of dissemination workshops and activities.
- Offering a MOOC for the management of emergencies in forest environments.
- Designing an awareness programme for emergency situations for vulnerable sections of the population.



## Training:

- Training and qualification programme for managers and middle managers.
- Training and qualification programme on prescribed fires.
- Training and qualification programme for managers responsible of raising awareness.
- Training programme on the use of ICT technologies.
- Creation of a white paper on cross-border and international cooperation.
- Prototypes of services based on ICT tested in real environments that will be oriented to the management of emergencies in forest environments.
- Book of good practices for guaranteeing accessibility in emergencies and evacuation from forest environments.



## Research:

- Creation of digital cartography for modelling and monitoring forest fire's combustibility and flammability.
- Characterization of meteorological and historical forest fire scenarios and monitoring and follow-up of forests in order to develop risk indexes and early warning systems.
- Risk analysis and preventive territorial planning.
- Monitoring and follow-up of the natural environment.
- Monitoring and follow-up of prescribed burns.
- Prescribed fires for the dynamization of Mediterranean ecosystems.
- Analysis of fire dynamics and management.
- Adaptation to fire and post-fire stress.
- Monitoring of the recovery of fauna and vegetation.
- Monitoring the effectiveness of Doñana fire restoration in experimental smallholdings.
- Interventions for the post-fire resettlement of the fauna.

# PARTNERS

- B1/BP. Junta de Andalucía-Consejería de Agricultura, Ganadería, Pesca y Desarrollo Sostenible
- B2. Agencia de Medio Ambiente y Agua de Andalucía
- B3. Agencia Estatal Consejo Superior de Investigaciones Científicas - Estación Biológica de Doñana
- B4. Fundación ONCE para la Cooperación e Inclusión Social de Personas con Discapacidad
- B5. Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, O.A., M.P.
- B6. Universidad de Cádiz
- B7. Universidad de Córdoba
- B8. Universidad de Huelva
- B9. Comunidade Intermunicipal do Algarve
- B10. Município de Castro Marim
- B11. Município de Loulé
- B12. Município de Monchique
- B13. Município de Tavira
- B14. Fundación Delegación Fundación Finnova
- B15. Universidade de Évora





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Centro Ibérico para la  
Investigación y Lucha contra  
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