TRANSFERABILITY REPORT

LIFE RedBosques_Clima

November 2025

Contents

We work as a network

Between 2022 and 2025, the LIFE RedBosques_Clima project has worked with a large group of forest and protected area managers to develop and apply tools to facilitate forests' adaptation to climate change.

We analysed the scientific evidence on which aspects of forest structure reduce vulnerability, developed a protocol for designing adaptation measures and an index for assessing drought risk, and applied them in three pilot areas.

The entire process of designing the tools and demonstration actions has been built on consensus and participation with a broad group of forest managers, protected area managers and researchers, who have been involved in different ways in the development of the project.

The dissemination and implementation of the tools and results of LIFE RedBosques_Clima during the four years of the project has been successful, partly thanks to the networks generated through the LIFE RedBosques project (LIFE15 GIE/ES/000809) and used in RedBosques_Clima. This first project consolidated a broad audience of protected area managers and forest managers interested in new visions and experiences of forest management with conservation and climate change adaptation objectives.

As a result, we now have a directory with more than 1,800 contacts related to forest management and the Natura 2000 network, landowners and landowner associations, universities and research centres, NGOs and companies in the environmental and forestry sector.

The exchange of information and technical debate have been a constant feature of a transferability programme consisting of:

Technical seminars Technical seminars were held with the participation of public administration managers, as well as forest management and

conservation professionals, during which the project's progress was discussed as it unfolded.

- Seminar I: Mature forests as a reference for adaptation to climate change. 30 March-1 April 2022. Vitoria/Gasteiz
- Seminar II: Restoration of forest habitats for adaptation. Scientific and technical criteria for the adaptation of forests to climate change. 19-21 October 2022: Campillo de Ranas (Guadalajara)
- Seminar III: Seminar on adaptation to climate change and fire risk in protected areas. 8–10 November 2023. Segorbe, Castellón.
- Seminar IV: Seminar on natural solutions for adapting forests to climate change in protected natural areas. 6-8 November 2024. Ports Nature Park, Tarragona.

Seminar IV in the Ports Natural Park

More information about the seminars on the project's website:
https://redbosquesclima.eu/seminarios/

A **programme of webinars** covering various topics such as the creation of resilient mosaics, the role of fire, silviculture for adaptation, the vision of

forest ownership and the adaptation of forests in Mediterranean Europe. The format has enabled these ideas to reach a wide audience, with an average of 200 participants per webinar.

- I RedBosques_Clima Webinar: Vulnerability of Forests to Climate Change. 18 April 2023
- II RedBosques_Clima Webinar: Natural solutions for the creation and maintenance of mosaics resilient to climate change. 28 September 2023
- III RedBosques_Clima Webinar: Is fire a tool for creating landscapes that are resilient to climate change? 14 February 2024
- IV RedBosques_Clima Webinar: Forestry for adaptation to climate change. 15 April 2024
- V RedBosques_Clima Webinar: Adapting forests to climate change. The perspective of forest ownership. 27 September 2024
- VI RedBosques_Clima Webinar: Forest adaptation to climate change from a Mediterranean region perspective. 18 February 2025 (held in English)

A **programme of exchanges for technical staff** enabled 40 forest management and protected area technicians from public administrations to learn about the project's results by visiting the demonstration sites and observing the actions carried out *in situ*.

- Silviculture for adaptation to climate change in the Sierra Norte de Guadalajara Nature Park. 24-25 October 2024
- Silviculture for adaptation to climate change in the Valencian Community. Alcoi, 14-15 January 2025
- Silviculture for the conservation of ecological processes in the Els Ports NaturePark. 12-13 March 2025

Technical training through the course "Forest maturity for adaptation to climate change" (Font Roja Natural Park, 2-28 May 2025) in which 25 professionals have applied the project's tools in different forest areas of the Font Roja and Sierra Mariola Nature Parks in the province of Alicante.

In addition to attending conferences and numerous national and international events, visits to other projects, etc.

Preparation of **technical and informative materials**, generated and disseminated as results are obtained:

- A quantitative index that allows for the quantitative assessment of drought risk. The index is accessible on an online platform, together with the manual and field protocols for its application.
- A guide to the criteria to be followed for the design, implementation and evaluation of adaptation actions in forests.
- A manual for technicians and professionals, with the scientific justification for the project and its application in the three demonstration cases.
- An analysis of the social and economic impact of adaptive forestry.
- Informative documents: frequently asked questions, videos, illustrations, etc.

Project objectives

The LIFE RedBosques_Clima project aims to promote the adaptation of forests to climate change through forest management that mimics natural processes.

To this end, the project has been organised around three specific objectives:

- Design tools to assess the forests' vulnerability to climate change and to ensure the quality and effectiveness of adaptation measures.
- Apply these tools in the field, in three cases representative of the most common state of conservation in Spanish forests:
- Encourage the transfer of project results and promote their replication throughout the territory, involving public managers, private owners and decision-makers / facilitating their adoption by public managers, private owners and decision-makers.

RedBosques_Clima provides tools to increase forest resilience by identifying the factors that make them most vulnerable to climate change. These tools can be applied across all types of forests and are of interest to both public and private managers.



Replicability results of the LIFE RedBosques_Clima project (2021-2025)

Four years have passed since we completed the LIFE RedBosques project, and now is a good time to review the progress made in public policies related to forest conservation and management, where the project has exerted influence.

This report presents the replicability results obtained during the implementation period of LIFE RedBosques_Clima:

European scale

Forest adaptation, increasing the resilience of forests and their impact on the provision of services and products, is one of the lines of action reflected in the European Biodiversity Strategy, the European Adaptation Strategy and the New EU Forest Strategy for 2030.

The project has taken advantage of several opportunities to disseminate the project's tools and results at relevant European meetings of forest conservation and management professionals, with the aim of promoting their replicability, including:

- The IV Mediterranean Biogeographical Seminar (Cyprus, 2024).
- The biannual congresses of the EUROPARC Federation (Netherlands, 2023 and Lithuania, 2025).
- *LIFE Platform Meeting on Forest Restoration in Europe* (Romania, 2025).
- VI RedBosques_Clima webinar (2025) , held entirely in English for a European audience under the title *Forest adaptation to climate change from a Mediterranean region perspective*. The webinar presented the peculiarities of Mediterranean forest management with adaptation objectives, through the experiences of RedBosques_Clima and other LIFE projects in Portugal and Italy.

National scale

Both the Spanish Forestry Strategy Horizon 2050 and the Spanish Forestry Plan 2022-2032 consider the adaptation of forests to climate change forecasts as one of the central pillars of state forestry policy in the coming years. The State Strategic Plan for Natural Heritage and Biodiversity for 2030, for its part, specifically advocates Nature-based Solutions (NbS) as a tool for responding to the uncertainty of climate scenarios and preventing associated natural disasters.

Communication with those responsible for state policies on forestry, conservation and climate change adaptation has been ongoing throughout the project. Officials from three Sub-Directorates General of the Ministry for Ecological Transition and Demographic Challenge (MITERD) (Forest Policy and Combating Desertification, Terrestrial and Marine Biodiversity, and Adaptation to Climate Change) have participated directly in the project's activities, including:

- VI RedBosques_Clima webinar (2025), through the presentation *Priorities in adapting to climate change in Spanish forests*.

- LIFE RedBosques_Clima meetings (Madrid, 2023), through the presentations *Are protected areas more vulnerable to fires? What do the data say?* and *Incidence of forest fires in the Natura 2000 Network*.
- Seminar *on Restoration of forest habitats for adaptation. Scientific and technical criteria for the adaptation of forests to climate change* (Guadalajara, 2022), through the presentation *Adaptation policies in protected areas*.

FUNGOBE's technical staff has actively participated in the forestry sector round table within the workshops convened in 2025 by the Spanish Office for Climate Change of the MITERD for the preparation of the 2026-2030 Work Programme of the National Plan for Adaptation to Climate Change, incorporating the principles and results of LIFE RedBosques_Clima into it.

Regional scale

The work and direct contact with public and private forest managers during the implementation of the project has begun to bear fruit in the form of planning actions and specific silvicultural interventions:

- In the Ports Nature Park, a working group has been set up with landowners to facilitate the application of RedBosques_Clima in all the measures planned for more than 4,000 ha.
- In the Valencian Community, LIFE Teixeres has used the drought vulnerability index to assess 13 stands. Action has been taken on 105 hectares (55 ha in Valencia, 45 ha in Alicante and 5 ha in Castellón), carrying out selective felling to modify the forest structure and reduce its vulnerability in accordance with the RedBosques_Clima criteria.
- Both in the Valencian Community and in Aragon, the vulnerability index has been used to identify climate refuges at the regional scale.
- In the Sierra Norte de Guadalajara Nature Park, our adaptive forest management model and the promotion of species diversity extends to planning and silvicultural interventions in other public forests in the protected area.
- In the Aigüestortes National Park, 300 hectares of forest are managed with adaptation objectives using the criteria of the RedBosques_Clima project.
- In Chile, the RedBosques_Clima methodology and demonstration actions are being incorporated into regional decision-making for the adaptation of the country's Mediterranean forests, through collaboration with CREAF.
- The Basque Government will include the vulnerability index in the next contract for monitoring the forests of this autonomous community for the period 2026-2030.

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