



# PYRENEES4CLIMA

Project Partners and Pilot Cases



Cofinanciado por  
la Unión Europea







# PYRENEES4CLIMA

Project Partners and Pilot Cases







# Project Partners





**The LIFE PYRENEES4CLIMA project brings together a large number of partners and experts from the CTP transboundary area, i.e. the Pyrenean bioregion. Different in nature and each in their own way, these entities work daily to achieve greater resilience to climate change in the Pyrenees with the PYRENEES4CLIMA project.**

**This team consists of:  
40 beneficiary partners,  
6 affiliated partners,  
and 8 associated partners.**

**The financial weight is distributed according to the nature of the partners  
10,11% corresponds to OPCC-CTP,  
12,85% to regional governments,  
and 77,04% to technical partners.**

**The geographical distribution of the partners is as follows :  
16,4% in Nouvelle Aquitaine,  
18% in Occitanie,  
26% in Cataluña,  
13% in Aragón,  
16,6% in Navarra  
and 10% in Euskadi.**



# 1. Consortium of the Working Community of the Pyrenees (CTP-OPCC)



**COORDINATING ENTITY**

Leader of WP 6 – Governance,  
WP 9 – Communication and Dissemination,  
WP 11 – EPICC Review and Action Plan 2031–2040,  
and WP 12 – Project Management.



The Working Community of the Pyrenees (CTP) has been working since 1983 on cross-border cooperation in order to create synergies between the actors of the territory despite the different institutional and regulatory frameworks. The Pyrenean Climate Change Observatory (OPCC), an initiative of the CTP created in 2010, works on the construction of a common action framework to create a Pyrenean territory resilient to climate change.



**Eva García Balaguer**

Responsible for the coordination of OPCC since 2015.



**Juan Terrádez Mas**

Project Manager at the OPCC since 2017.

## 2. Nouvelle-Aquitaine Region (NAQ)



Executive Mission in WP1 – Complementary Funds, WP6 – Governance, and WP10 – Replication and Exploitation.



The Nouvelle-Aquitaine region represents one of the seven territories of the CTP. It is a key political actor in the bioregion, especially in terms of promoting local climate governance and horizontal and vertical coordination with the different political levels in a transboundary context. AcclimaTerra reports (regional scientific committee on climate change). In addition to its participation in the OPCC, the region also manages the Neo Terra initiative since 2019, to move from diagnosis to action and transform risks into opportunities, as well as to support public and private actors in their energy and ecological transition by 2030.



**Nicolas Dolido**

Director of the Environmental Service



**Colette Copin**

Project Manager.

**Jérémy Amoreau**

Member of the technical committee.

### 3. Environment and Tourism Department – Government of Aragon (ARA)



Executive Mission in WP1 – Complementray Funds,  
WP6 – Governance, and WPIO – Replication and Exploitation.



Representing one of the political territories of the CTP in the center of the Pyrenees, the Government of Aragon is responsible for strategic planning in the field of climate change mitigation and adaptation; in the territorial field, the development of environmental education, the preservation of the natural environment, the conservation of biodiversity and forestry policy. It is therefore a key player in facing the challenges in Aragon and the Pyrenees. Specifically, within the project, it will promote local climate governance.



**Miguel A. Muñoz**

Head of the Environmental Education  
and Climate Change Department.

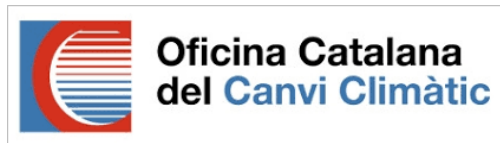


**Antonio Navarro**

Environmental Education  
and Climate Change Advisor.



## 4. Catalan Office of Climate Change (CAT-OCCC)



Leader of WP10 – Replication and Exploitation,  
Executive Mission in WP1 – Complementray Funds,  
and WP5 – Population and Territory.



The OCCC develops its activity in the field of climate change mitigation and in the field of adaptation, both related to strategic planning, through coordination in the territory. In WP5, the objective will be to develop two nature-based solutions to face torrential risks in the Catalan Pyrenees. It acts as a driver and coordinator of WP6, a key role in translating knowledge and lessons learned from the project into public policy.



**Gabriel Borràs**

Responsible of the Adaptation  
Department of the OCC  
since 2011.



**Joana Rull**

Agrotechnical Engineer.  
After a career in Agricultural  
Management in Catalonia, Joana  
joined OCCC in 2023.



**Gemma Cantos Font**

OCCC Senior Technician.

## 5. The Public Company for Environmental Management IHOBE S.A. IHOBE SA (EUS)



Executive Mission in WP6 – Governance



The Public Company for Environmental Management IHOBE S.A. IHOBE SA is a public company that supports the Basque Government in the execution of environmental policy and in its representation in the OPCC. Also noteworthy is its role in the mobilization of Basque municipalities (within the framework of Udalsarea 2030, the Basque network of sustainable municipalities), in areas such as climate change, natural heritage or circular economy.



**Mari Mar Alonso**

Department Director of Climate Change of the Basque Government.



**Malake Muñoz Cachan**

Climate change expert.

## 6. Occitanie Region (OCC)



Leader of WPI – Complementary Funds,  
Executive Mission in WP6 – Governance,  
and WPIO – Replication and Exploitation.



The Occitanie Region is the public administration that intervenes by defining plans and strategies at the regional level, but also by financing projects led by local actors that meet the Region's objectives. It deploys a European and international strategy in favor of cooperation and the attractiveness of its territory, while working for inclusive development. Active participant in the OPCC, with the Green Pact voted in November 2020 by the Occitanie Region, and currently holds the presidency of the CTP.



**Simon Moulinès**

Director of the Green  
Pact of the Occitanie Region.



**Emmanuela Afendulis**

Responsible for European cooperation.

## 7. Comunidad Foral de Navarra – Government of Navarra (NAV)



Executive Mission in WPI – Matching Funds, WP6 – Governance, and WP10 – Replication and Exploitation



The Government of Navarra is a regional government member of the 7 territories of the CTP. The General Directorate for the Environment is responsible for environmental conservation and protection issues, and in particular, of the definition of the strategy for climate change adaptation initiatives. The Government of Navarra is the first autonomous public body responsible for environmental policies and strategies in Navarra.



**Fernando Señas Bea**

Director of the Navarra Office of Climate Change.



**Estibaliz López Mariñelarena**

Director of the Climate Action Coordination Section of Navarra.

## 8. Servei Meteorològic de Catalunya (SMC)



**Servei  
Meteorològic  
de Catalunya**

Leader of WP2 – Climate.  
Executive mission in WP6 – Governance.



The SMC is a public entity of the Generalitat de Catalunya. The SMC has extensive experience in monitoring climate variability and observed and predicted climate change in Catalonia. It is responsible for the maintenance of the climate database, for checking the quality and homogeneity of the climate series and for initiatives to retrieve data from unknown series. Its role is to update the climatic database available for the Pyrenees, to enrich it with other essential climatic variables and to extend the scope of the project to other regions. The SMC has participated in several previous OPCC-led projects such as ClimPyr.



**Marc Prohom**

Director of the Department of Climatology



**Jordi Cunillera**

Director of the climate change team.

## 9. Météo France (MF)



Co-Leader of WP2 – Climate



Météo-France, the national meteorological service, is responsible for climate knowledge in France (archiving and monitoring of the climate database) and the impacts of climate change. The Direction de la Climatologie et des Services Climatiques (DCSC) of Météo-France, involved in this project, is the operational component of Météo-France in terms of climate services. It is in charge of monitoring and archiving past data, climate change simulations, snow modeling and many others. The DCSC has extensive experience of participating in national and international projects on the understanding of climate change impacts in mountain regions and has been involved in several previous projects led by the OPCC (in particular the ClimPy project).



**Jean-Michel Soubeyrou**

Director at DCSC, in charge of operational transfer of the results of climate research, knowledge of the impacts of climate change and the development of climate services of adaptation.

## 10. Superior Council for Scientific Research (CSIC)



Leader of WP3 – Resilient Ecosystems,  
Executive mission in WP2 – Climate, WP4 – Adapted mountain  
economy, WP5 – Population and territory, WP6 – Governance,  
and WP7 – Training of public and private stakeholders



The Consejo Superior de Investigaciones Científicas (CSIC) is the largest public research institution in Spain and the third largest research organization in Europe. Dependent on the Ministry of Science and Innovation, CSIC plays a key role in both Spanish and global scientific and technological policy. The CSIC team plays a fundamental role in the study and monitoring of climate change processes and their impacts on the Pyrenees, including the atmosphere, the cryosphere, water resources and environmental quality. One of CSIC's main missions is to study the changes occurring in mountain territories and landscapes as a consequence of global change, understood as the consequences of human activities.

### WP3 Leaders – Resilient Ecosystems



**Blas Lorenzo  
Valero Garcés**

Responsible for task 3.1.3 Lakes.  
Participates also to WP6 and WP7.  
Quaternary paleoenvironments and  
global change.



**Juan Ignacio  
López Moreno**

Responsible for task 3.1.2 Cryosphere.  
Also involved in WP6 and WP7.  
Environmental hydrology  
and interactions with climate  
and human actions..



**Jorge Pey**

Responsible for task 3.1.6  
Atmospheric deposits.  
Quaternary paleoenvironments  
and global change.

**Ecological restoration group**



**Belinda Gallardo**

Responsible of the subtask 3.2.8 Invasive Species..



**Begoña García**

Responsible for task 3.2.4 Changes in ecological productivity. Also involved in WP7.



**Estela Nadal**

Responsible for tasks in WP4. Environmental hydrology and interactions with climate



**Ana Moreno**

Paleoenvironments quaternary and global change -WP3.



**Sergio Vicente Serrano**

Environmental hydrology and interactions with climate and human actions - WP2..



Instituto Geológico y Minero de España



**Javier Lambán**

Responsible for the groundwater pilot case - WP3.



**Juan Antonio Ballesteros Cánovas**

Principal investigator of the National Museum of Natural Sciences - WP5



## 11. Joint Association of the Conservatoire Botanique des Pyrénées (CBNPMP)



Co-leader of WP3 – Resilient Ecosystems  
Executive Mission in WP6 – Governance



The Conservatoire Botanique National Pyrénéen is dedicated to biodiversity research and conservation, specializing in flora, vegetation and natural habitats. Its mission includes the protection of endangered species and ecological restoration. It manages and shares biodiversity data and works on awareness and education. CBNPMP leads transboundary programs, usually involving a network of institutions from France, Spain and Andorra, on forest and vegetation knowledge, as well as species and habitat monitoring in relation to global changes and, in particular, climate change. It has also contributed to the development of citizen science by providing scientific and technical support to the Phenoclim program.



**Michaël Douette**

Deputy Director.



**Ludovic Olicard**

In charge of habitat studies and monitoring.



**Manuel Delafoulhouze**

Responsible for ecological restoration.



**Jérôme Dao**

Activity manager..

## 12. Agences Des Pyrénées (ADP)

# L'AGENCE DES PYRÉNÉES

Leader of WP4 – Adapted mountain economy,  
Executive mission in WP6 – Governance.



The Pyrenees Agency (ADP) is an inter-regional structure dedicated to the development, valorization and preservation of the Pyrenees massif. It allows public authorities to have a 360° vision of the challenges facing the massif and to de-compartmentalize intervention approaches and tools, strengthen support instruments for project promoters, promote tourism and the digital development of mountain areas. The vision of the ADP is to stimulate, encourage and support a new dynamic of development and sustainable management of resources in the Pyrenees. ADP has an important role within the project in the tourism sector, circular economy, training and awareness of professional actors.



**Joël Maitia**

Project Manager



**Domitien Détrie**

Territorial Administrator and  
General Manager of the Agence  
des Pyrénées.



**Karine Brun**

Project Manager

## 13. Centro de Investigación Ecológica y Aplicaciones Forestal (CREAF)



Co-leader of WP4 – Adapted mountain economy, Executive Mission in WP6 – Governance, and WP7 – Capacity building of public and private stakeholders.



CREAF is a public research center dedicated to terrestrial ecology, territorial analysis and global change. The center strives to contribute to knowledge on the conservation and management of the environment and territory, and adaptation to environmental change at local, regional and global scales. CREAF's activities include research on the function and diversity of natural ecosystems and its response to environmental problems that could seriously affect ecosystem function, the development of a risk and security management system, and the development of conceptual and methodological tools to aid decision-making and facilitate sustainable management. In the project CREAF leads the actions of agropastoralism and application of adaptation measures in this area.



**Diana Pascual Sanchez**

Technician in forestry engineering, assesses the effects of global change on water availability and forest ecosystems.



**Eduard Pla Ferrer**

Technician and specialist on the effects of global change on forest ecosystems and fire ecology.

## 14. GEIE FORESPIR



Executive mission in WP3 – Resilient Ecosystems,  
WP4 – Adapted Mountain Economy,  
and WP6 – Governance



FORESPIR is a French–Spanish–Andorran grouping whose objective is to improve and increase the production, processing and sustainable marketing of forest products, wood and its derivatives and, in general, to contribute to the maintenance and development of the wood sector and the economic, ecological and social functions of the Pyrenean forest. FORESPIR is a tool for expertise, creation and dynamization of exchanges and collaboration for Pyrenean decision-makers and stakeholders. It designs, prepares and develops projects and initiatives of territorial cooperation based on its in-depth knowledge of the issues, tools and networks of actors available and in progress in the Pyrenees in terms of sustainable and multifunctional forest management. FORESPIR leads with its 6 affiliated partners the forest management actions in WP4.



Sébastien Chauvin

Director of Forespir and project manager.



Raphaël Delpi

Senior technician in climate change and forestry.



## 15. Pyrénées–Pyrenees European Grouping of Territorial Cooperation(AECT)

PIRINEOS  
PYRÉNÉES



Leader of WP5 – Population and territory,  
Executive mission in WP4 – Adapted Mountain Economies,  
and WP6 – Governance.



The objective of the Pirineos–Pyrénées EGTC is to implement and manage the approved territorial cooperation projects and actions from a sustainable development perspective. The Pirineos–Pyrenees EGTC is committed to developing the mountain territories of the central Pyrenees by meeting the current challenges of maintaining the population and adapting to the changes undergone: climatic, economic and social; involving local authorities, associations and economic and social actors in the cooperation and development projects of the territories. In this project, EGTC has the main role to develop nature-based measures (NBS) to respond to natural climate risks affecting vulnerable infrastructures.



**Santiago Fábregas**

Project manager and  
forestry engineer.



**Andrés Olloqui**

Acting General Manager,  
Director of Cross-Border Infrastructures  
and Industrial Engineer.

## 16. University of Barcelona (UB)



UNIVERSITAT DE  
BARCELONA

Executive Mission in WP3 – Resilient Ecosystems  
and WP5 – Population and Territory.



The University of Barcelona, founded in 1450, has a long tradition of research in meteorology, atmospheric physics, air pollution, ecology and plant conservation, particularly with regard to wetland ecosystems and snow beds. The studies carried out in recent years by members of the UB team on atmospheric processes, their influence on water resources and flood risks, as well as air quality, heat waves and their effect on mountain areas, especially in the Pyrenees, will contribute greatly to the achievement of the project's objectives.

### Team 1: WP5 : Air quality



**Joan Bech**

Professor of the Department  
of Applied Physics of the UB.



**Yolanda Sola**

Professor of the Department  
of Applied Physics of the UB.

**Team 2 : WP3 – Water**



**Carmen Llasat**

Professor and coordinator of the section of meteorology of the Department of Applied Physics of the UB. Her research and activities focus on climate change, hydrometeorological hazards and the impact of severe weather events on society.



**Raul Marcos**

Professor of Meteorology.

**Team 3 : WP3 – Wetlands**



**Estela Illa Bachs**

Professor of the Department of Evolutionary Biology, Ecology and Environmental Sciences of the UB, and member of the GeoVeg Research Group (Geobotany and Vegetation Mapping).



**Aaron Pérez-Haase**

Professor of the Department of Evolutionary Biology, Ecology and Environmental Sciences of the UB, and member of the group Recerca GeoVeg (Geobotany and Vegetation Cartography)

# 17. Pyrenees Alive Education Network (REPV)



Leader of WP7 – Capacity building of public and private stakeholders, Executive mission in WP6 – Governance, and WP7 – project management.



The Pyrenees Alive Educational Network (REPV) is a cross-border network. Its objective is to develop and promote programs, actions and tools in the field of environmental education, heritage interpretation and territorial mediation in the Pyrenees and internationally. Its activities are based on active pedagogical methods and on scientific, artistic, sporting, imaginative, cooperative and participatory approaches within a systemic process with a cultural dimension. In this project, REPV leads WP7 in a trans- versal way and will support the rest of the project actions by developing awareness and training actions addressed to different audiences.



**Philippe Serre**

Founder and coordinator of REPV.



**Julia Gladine**

Coordinator of projects and associative life.



**Aurélien Harirèche**

Co-director of the Ecocène Foundation and coordinating member of REPV.



## 18. Navarra de Suelos y Viviendas SA (NASUVINSA)



Leader of WP8 – Monitoring the impact of projects,  
Executive mission in WP4 – Adapted mountain economy,  
WP5 – Population and territory and WP6 – Governance.



**NASUVINSA is a public company belonging to the Entidad Pública Empresarial de Navarra (CPEN), under the Government of Navarra, whose function is to provide technical and operational support to the Regional Government in the implementation of its policies, in particular through Lursarea, rural development and territorial cohesion. It also plays an active role in inter-institutional collaboration with local authorities in the implementation of local climate strategies by coordinating the implementation of the SECAP (Covenant of Mayors) in Navarra..**



**Ion sola**

Expert of the Regional Observatory  
of Navarra.



**Aitor García**

Expert in Sustainable Territorial  
Development.

## 19. Association of Agricultural Chambers of the Pyrenees (ACAP)



Executive mission in WP4 – Adapted mountain economy



ACAP is a non-profit association federating the 6 departmental chambers of agriculture of the Pyrenean massif (Pyrénées-Orientales, Aude, Ariège, Haute-Garonne, Hautes-Pyrénées, Pyrénées-Atlantiques). Created in 2008, its objective is to bring additional coherence to the actions undertaken by its members to promote mountain agriculture. Within the project, ACAP participates in agropastoralism actions and works on two pilot sites, one with oceanic inflow and the other at the crossroads of oceanic and Mediterranean inflow, ACAP will mobilize its agricultural advisors, its network of experts and its institutional partners.



**Sarah Fichot**

Deputy Director and Agricultural Engineer.



**Juliana Papuchon**

Technician..

## 20. Conservatoire d'Espaces Naturels Ariège (ANA-CEN)



Executive Mission in WP3 – Resilient Ecosystems.



ANA-CEN Ariège is a non-profit association approved by the law of 1901 for the protection of the environment. It was founded in 1988 to enhance the cultural, ecological, biological and geological value and heritage of Ariège. The work of ANA-CEN Ariège is based on 4 principles : to acquire knowledge on biodiversity by protecting remarkable natural sites through ownership or land use, to elaborate and implement management plans defining the ecological management of sites necessary to preserve biodiversity and to promote naturalistic knowledge and natural heritage among various publics. Their input is fundamental to the action of the Innovation Network on Lakes and Peatlands (Subtask 3.1.4).



**Cécile Brousseau**

Co-coordinator.



**Laurent Servièrè**

Coordinator.



**Thirsa Van der Veen**

Responsible for technical coordination and communication..

## 21. Atlantic and Pyrenean Urban Planning Agency (AUDAP)



Executive Mission in WP5 – Population and Territory.



AUDAP is a public agency for urban and regional projects. It addresses numerous thematic issues such as access to housing, mobility, development, economy and environment, always from a perspective of ecological transition and environmental health through the use of collaborative methods. Within the project, its multidisciplinary team develops better management of water resources and associated risks in the area, leading to innovative solutions and more virtuous spatial development (Subtasks 5.1.3 and 5.2.1).



**Marc Trinqué**

Program Director.



**Hélène Larralde**

Doctor in Geography, responsible for cross-border relations at AUDAP.



**Anne Lafargue**

Administration.

## 22. BC3 Basque Center for Climate Change - Klima Aldaketa Ikergai (BC3)



Executive Mission in WP5 – Population and territory, and WP6 – Governance.



BC3 is a research center based in the Spanish Basque Country. Since 2008, its mission has been to strategically foster the co-production of decision-useful knowledge by integrating the environmental, socio-economic and ethical dimensions of climate change. Its interdisciplinary team places strong emphasis on methodological innovations in the field of information technologies for sustainable development. ARIES (Artificial Intelligence for Ecosystem Services) is an example that will be applied to this project. The BC3 focuses on the modelling of ecosystem services to provide a life-human system perspective widely recognized in science, management and governance, and supports its application to an area of the Western Pyrenees.



**Stefano Balbi**

Researcher in Science and Sustainability, and Management of Natural Resources.



**Maria José Sanz-Sanchez**

Scientific director and author of 5 IPCC documents.

## 23. Center for Studies and Expertise on Risks, Environment, Mobility and Territorial Planning (CEREMA)



Executive Mission in WP3 – Resilient Ecosystems  
WP5 – Population and Territory and WP6 – Governance.



CEREMA is a French public organization that supports local and regional stakeholders in the implementation of their projects, particularly in the fields of local and regional expertise and engineering and the environment. Its teams are spread over some twenty centers. The SO Regional Division operating in the Nouvelle-Aquitaine region, in collaboration with the Occitanie Regional Division, will be the centers involved in the project. The aim of its work is to support national actors in taking climate change into account and adapting to it. To this end, it is working in collaboration with numerous innovation and research stakeholders and is developing various demonstrative cases in the fields of water management, and natural connectivity within the project.



**Catherine Leonard**

Responsible of Planning and Environment.



**Didier Felts**

Responsible of the Water Resources and Resilience Group.



**Vanessa Rael**

Responsible of Biodiversity Studies and Planning.

## 24. Center for Agri-Food Technological Research of Aragon (CITA)



Executive mission in WP5 – Resilient Ecosystems, and WP4 – Adapted Mountain Economy



CITA is a public institution for research, development and technology transfer in the agri-food and forestry sectors. Its mission ranges from research excellence to cooperation with the public and private sectors and the dissemination of scientific results. CITA has key expertise in project management, mountain agricultural systems, ecosystem services and sustainable adaptation models. In this project I will develop different pilot experiences in the field of mountain agriculture.



**Alberto Benues**

Deputy Scientific Director



**Juliana Navarro Rocha**

Coordinator of the Aromatic Plants pilot projects.



**Francisco Javier Rodrigo García**

Coordinator of the pilot case on fruit trees.



**Sergi Garía Barreda**

Coordinator of the pilot case on Truffles.

## 25. French National Center for Scientific Research (CNRS)



Executive Mission in WP3 – Resilient Ecosystems, WP7- Capacity building of public and private stakeholders, and WP8 – Project impact monitoring.



The CNRS is a public scientific and technological research organization under the French Ministry of Education and Research. The project involves 4 research units, 2 at the Université de Pau et des Pays de l'Adour (UPPA) in Pau (IPREM and TREE) and 2 in Toulouse (GEODE and LEFE). The UPPA is the affiliated entity of the CNRS. It is also involved in training and awareness-raising activities with young university students.



**Béatrice Lauga**

Professor at UPPA in IPREM.



**François Rigal**

Professor.



**Marine Meslier**

Laboratory Technician in IPREM.



**Christine Bouisset**

University Professor of Geography, Deputy Director of the Energetic and Environmental Transition Laboratory.



**David Amouroux**

Director of Research, Head of the Environmental Chemistry and Microbiology Unit.





## 26. Foundation for the socioeconomic development of Alto Aragón (FUNDESA)



Executive mission in WP4 – Adapted mountain economy.



**FUNDESA is a non-profit organization whose mission is to participate in the socioeconomic development of the province of Huesca. It is linked to the Chamber of Commerce of Huesca. The border situation of this province is a key aspect in the development of shared projects in the Pyrenees. In its projects, FUNDESA tries to provide solutions for the viability and sustainability of the Pyrenean territory. In recent years, FUNDESA has participated in projects related to tourism, depopulation and cross-border communication. In this sense, FUNDESA participates and develops actions within the task 4.1.**



**Jorge Gómez**

Director of FUNDESA. Specialised in International Economics, University of Zaragoza.

## 27. Environmental Management of Navarra (GAN)



Executive Mission in WP3 – Resilient Ecosystems



**Nafarroako Ingurumen Kudeaketa S.A. (GAN)** is a public company of the Government of Navarra that since 1982 has been working in support of the Department of Rural Development and Environment, more specifically in the planning and management of biodiversity in Navarra. As part of the project, it is helping to draft a protocol for sentinel wildlife species, which have great potential to indicate the process of change thanks to their experience in wildlife monitoring.



**Diego Villanua**

Responsible for the biodiversity sector,  
with special emphasis on wildlife.



**Luis Sanz**

Technical Director.

## 28. Institut Cartogràfic i Geològic de Catalunya (ICGC)



Executive Mission in WP3 – Resilient Ecosystems



The Institute of Cartography and Geology of Catalonia (ICGC) is the official mapping and geology agency of the Government of Catalonia. Since 2014, it has been working to collect data using geophysical and geotechnical instruments and equipment, develop its capacity in related fields, provide technical support for land and urban soils planning, and produce topographic maps. As part of the project, it develops indicators on land use and continues its work on mapping pyrenean soils in the context of climate change.



**Agnès Lladós**

Responsible for communication and administration



**Jordi Corbera**

Responsible for the PCOT sector.



**Marc Vicens**

Head of the Soil Department since 2008.

## 29. Basque Institute for Agricultural Research and Development (NEIKER)



Executive Mission in WP3 – Resilient Ecosystems, and WP6 – Governance.



NEIKER is a private, non-profit Basque agricultural research and development center. It is dedicated to promoting research and development projects in agriculture, forestry and natural and environmental resources through 5 departments. As part of the project, NEIKER leads subtask 3.1.5 on soils.



**Ainara Artete  
Arrien**

Technician and agricultural engineer.



**Ander  
Arias-González**

Head of the Department of Forestry Sciences



**Nahia Gartzia-  
Bengoetxea**

IResearcher in sustainable forest management

## 30. Nature en Occitanie (NEO)



Executive Mission in WP3 – Resilient Ecosystems,  
and WP6 – Governance



The objective of the Nature en Occitanie association is to promote actions and initiatives aimed at ensuring the conservation of the subsoil, soil, water, atmosphere, flora, fauna and, in general, any natural environment of interest to be preserved against any natural degradation effect and protected against any artificial intervention likely to alter its appearance, composition and evolution. Nature en Occitanie is currently leading a long-term program, called «Sentinelles du climat», to monitor the impact of climate change on Occitania's flora and fauna. This experience will be very useful to develop task 3.2 of this project and to complete the information and knowledge of the PyrAdapt geo-portal.



**Justine Gay-Des-Combes**

Program Project Manager  
«Sentinelles du Climat» in Occitanie.



**Floréal Jourdain Potier**

Financial-administrative officer

## 31. Navarra de Infraestructuras locales SA (NILSA)



Executive Mission in WP5 – Population and Territory.



Navarra de Infraestructuras Locales, S.A. (NILSA) is a public company of the Government of Navarra, created in 1989 as the body responsible for the execution of the Navarra River Sanitation Plan. At present, NILSA works to guarantee the correct execution of the plan for the integral water cycle, as well as in the treatment of sludge and re-waste. In its actions, NILSA always takes into account the prevention and mitigation of climate change in the design, construction and operation of its wastewater treatment facilities and in the improvement of water management. Specifically, it leads subtask 5.3 in which it is responsible for 3 pilot experiences



**Josetxo  
Cherez**

Technician and Operator  
Maintenance.



**Itsaso Ilzarbe  
Senosiain**

R+D+i Technician.



**Jairo Gómez  
Muñoz**

RI+D+i Manager and  
Operational Technician.



**Julen Fernandez  
Sanz de Galdeano**

Operation and Maintenance  
Department Technician.

## 32. Gipuzkoa Climate Change Foundation (NATURKLIMA)

# Naturklima

Aldaketa Klimatikoaren | Fundación de Cambio | Climate Change  
Gipuzkoako Fundazioa | Climático de Gipuzkoa | Foundation of Gipuzkoa

Executive Mission to WP2 – Climate



**NATURAKLIMA is the Climate Change Foundation of the Provincial Council of Gipuzkoa, attached to the Department of Environment of the Provincial Council. NATURAKLIMA was created to play a key role in the governance of climate change in Gipuzkoa and as a multidisciplinary public center within the framework of the climate change strategy of Gipuzkoa («KLIMA 2050»). Through its Observatory, HUBS and documentation center, NATURAKLIMA promotes innovative models of interconnection open to collaboration and agreement between public managers, researchers, leading companies in research and innovation, active non-profit organizations and citizens. Its role in task 2.3 supports the development of sectoral climate change indices.**



**Dorleta Orue  
Echevarria**

Coordinator at the  
Observatory.



**Mikel Orive**

Observatory Technician.



**Mila Iglesias**

Administrative Manager.



**Xabier Esteba**

Technical Director.

### 33. Ebro Observatory (OBSEBRE)



Executive Mission in WP3 – Resilient Ecosystems.



Founded in 1904 as a geophysical observatory focused on the study of Earth-Sun relations, it is now a foundation dedicated to the study of geophysics. It currently has two lines of research, one focused on geomagnetism and aeronomy, and the other on hydrology and climate change. Thanks to its experience in various projects, the OBSEBRE is an expert in the quantification of water resources, the study of drought through remote sensing models and data, the quantification of the impact of irrigation on the continental hydrological cycle through remote sensing and modeling, and the study of the impact of climate change on hydrology. Precisely this is the work he performs leading and developing task 3.1 on the hydrological cycle.



**Roger Clavera Gispert**

Doctor in Geology and Specialist in Mathematical Geology.



**Quintana Pere Seguí**

Doctor and Head of the Hydrology and Climate Change team.



## 34. National Park of the Pyrenees (PNP)



Executive mission in WP3 – Resilient ecosystems, WP6 – Governance and WP7 – Capacity building of public and private stakeholders.



PNP is France's third largest national park, and is therefore an important partner in the bioregion. The PNP is a territorial entity covering an area of 2,500km<sup>2</sup> and therefore plays a cross-cutting role in its area, with the aim of linking all the actions planned by the various partners and actors in the area, both to ensure greater ownership by the latter and to facilitate their implementation. It participates within WP6 in the implementation of pilot cases in its area and lighthouse cases and will enrich its « Charte du territoire ».



**Christophe Cognet**

Responsible for the Department of Knowledge and Heritage Management



**Marie Hervieu**

Head of Heritage Management.



**Arnaud David**

Deputy Director of the National Park.

## 35. Spanish Ornithological Society (SEO)



Executive Mission in WP3 – Resilient Ecosystems,  
and WP6 – Governance.



SEO/BirdLife is a scientific and conservationist association dedicated to the study and conservation of birds and nature since its foundation in 1954. A pioneer among Spanish conservation NGOs, with more than 50 years of continuous activity, it strives to conserve wild birds and their habitat in Spain and to carry out scientific studies and awareness programs to increase knowledge about wild birds and their habitat through educational projects. Its contribution to the project focuses both on the contribution of data to the network of knowledge and monitoring of wildlife, as well as the implementation of land stewardship actions that complement local climate action.



**Luis Tirado**

SEO Territorial Delegate  
and Doctor in Biology.



**Sofia Morcelle**

Biologist and project  
technician.



**Pablo Vicente**

Project management technician.

## 36. Autonomous University of Barcelona (UAB)



Co-Leader of WP7 – Capacity building of public and private stakeholders.



The Autonomous University of Barcelona (UAB) is a public university founded in 1968 and located on the UAB campus in Cerdanyola del Vallès. UAB has extensive experience in tasks related to proposals and coordination and participation in LIFE and other European projects. The UAB ecology unit has been a pioneer in the introduction of terrestrial ecology studies in Catalonia and Spain, with almost 40 years of research and experience in forest ecology, forest management and global change in the Mediterranean and works together with CREAM in agropastoralism and forestry actions (WP4) but especially leads citizen science actions (Subtasks 7.1 and 7.3).



**Bernat Claramunt López**

Doctor in Mountain Ecosystems Response to Environmental Changes and Gradients.

## 37. University of Navarra (UNAV)



Universidad  
de Navarra

INSTITUTO DE BIODIVERSIDAD  
Y MEDIOAMBIENTE  
BIOMA

Executive Mission in WP3 – Resilient Ecosystems,  
and WP5 – Population and Territory.



The Institute of Biodiversity and Environment (BIOMA) of the University of Navarra (UNAV) is a recently created multidisciplinary research center whose objective is to understand the main environmental challenges facing our planet, such as climate change, biodiversity loss, environmental pollution and deforestation. UNAV researchers are involved in several of the project's actions, contributing their expertise and research infrastructure in subtasks 3.1.4 and 3.1.6. They also participate in several projects related to the effect of climate change and atmospheric pollution in the Pyrenees (subtask 5.1.2).



**Jesús Miguel Santamaría**

Director of the BIOMA Institute.



**David Elustondo**

Scientific Director of the BIOMA Institute.

## 38. Polytechnic University of Catalonia (UPC)



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH

Executive mission in WP4 – Adapted mountain economies.



The Universitat Politècnica de Catalunya Barcelona (UPC) is a public institution of research and higher education in the fields of engineering, architecture, science and technology. The UPC has the University Institute for Research in Sustainable Science and Technology (IS.UPC), a basic unit of the UPC that functions as an institute and promotes and conducts research on sustainability. The UPC tries to stimulate the Pyrenean economy through its support to the task 4.1 of sustainable tourism development and in particular the ski resorts..



**Martí Rosas**

Professor at the UPC, specialized in thermodynamics.



**Oriol Travesset**

Research member of Andora Research and Coordinator of the Sustainability Department.

## 39. Public University of Navarra (UPNA)

upna

Universidad Pública de Navarra  
Nafarroako Unibertsitate Publikoa

MExecutive mission in WP3 – Resilient Ecosystems,  
and WP4 – Adapted Mountain Economies.



Created in 1987, the Public University of Navarra (UPNA) is a public university with a strong technical character, whose academic activity covers all branches. Five researchers from the IS-FOOD Institute participate in the project, in three research groups: Ecology and Environment, Animal Production, Nutrition and Bromatology, and Sustainable Soil Evaluation and Management, both in WP3 on soil types and in WP4 on agropastoralism..



**Alberto Enrique  
Martín**

Professor of Soil and  
Agricultural Chemistry.

**Isabel de Soto**

Professor of Soil and  
Agricultural Chemis

**Rosa  
Ma Canals**

Profesora of Plant  
Production..

**Beatriz Soret**

Professor of  
Animal Production.

**Iñigo Virto**

Professor of Soil Science  
and Agricultural Chemistry.

## 40. Parc National de Port-Cros (CBNMED)



Executive Mission in WP3 – Resilient Ecosystems,  
and WP4 – Adapted Mountain Economies.



CBNMED's missions are to develop knowledge of flora, fungi, vegetation and habitats at territorial, national and biogeographical levels, as well as to manage, disseminate and improve data and contribute to habitat conservation management and ecological restoration. It also aims to support the development and implementation of public policies and regulations at regional, national and European levels, in particular through strong communication, awareness raising and mobilization of stakeholders. This project develops and supports the actions of subtask 3.2.



**Karine Faure**

Project Manager



**Louise Turrin**

Responsible for Conservation Mission.



**Olivier Argagnon**

Vegetation and Habitat Reference..

## Entidades asociadas











# Pilotos Cases





**One of the main commitments of LIFE PYRENEES4CLIMA will be to intervene in the Pyrenean territories, implementing the EPiCC on the ground through demonstrative pilot cases. This practical implementation is divided into five areas of action inspired by the strategy:**



**Understanding climate impacts.**



**Improve the resilience of natural areas.**



**Adapt the mountain economy.**



**Protect the population and the territory from natural and climatic risks, and from the deterioration of resources.**



**Promote an innovative climate governance system involving citizens, socioeconomic sectors, the scientific community and territorial management authorities.**





## WP2. Climate

- 2.1 Recovery of historical climate data
- 2.2 Impact of the Elevation Dependent Warming phenomenon (EDW)
- 2.3 Calculation of predicted climate indicators for sensitive sites
- 2.4 Validation of climate change indices with stakeholders in the Basque Country
- 2.5 Real-time platform for climate risk monitoring



## WP4. Adapted Mountain Economy

- 4.1 Mountain ski resorts.
- 4.2 Development of a transitory and tied economic model
- 4.3 Circular» tourism. Innovation Incubator
- 4.4 Development of new tourism products
- 4.5 Improvement of livestock production systems
- 4.6 Improved marketing of pasture products
- 4.7 Valorization of non–food products from pasture, the case of wool
- 4.8 Diversification of mountain agriculture
- 4.8–4.12. Valorization of solid forests in the face of climate change (Timber value chain)



## WP3. Resilient Ecosystems

- 3.1 Adaptation strategies in irrigation management
- 3.2 Soil and water management strategies
- 3.3 Quantifying the impact of climate change and tourism activities on aquifers
- 3.4 High altitude hydrographic basins: integrated assessment of water production, sediment dynamics, habitats and changes in biodiversity
- 3.5 Ecological connectivity
- 3.6 Restoration of ecosystems and soils local seeds
- 3.7 Regulation of invasive alien species



## WP5. Population and Territory

- 5.1 Valuation of ecosystem services applied at the local level in Navarre
- 5.2 Air quality indices for different land uses and types of activities under normal conditions, and extreme values.
- 5.3 Governance of the integral water cycle
- 5.4 Co-construction process (participatory and replicable) to achieve the following operational actions (large-scale diagnosis of the potential for infiltration)
- 5.5 Risk management and planning at the local and national territory.5.5 Gestión de riesgos y planificación a nivel local en el territorio pirenaico
- 5.6 NBs for the of avalanches risk in the Pyrenean territory
- 5.7 NBs for ground movements
- 5.8 NBs for the torrential risk in the Pyrenean territory









### **Editorial Staff**

Romane Baze

### **Graphic Design**

Noémie Garon

### **Coordination**

Este proyecto fue supervisado y documentado por Eva García Balaguer, Juan Terrádez Mas y Paty Nakhlé.

### **Typography**

DM Sans

Co-financed by the European Union. However, the views and opinions expressed are solely those of the expressed are solely those of the authors and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



