FIREURISK - DEVELOPING A HOLISTIC, RISK-WISE STRATEGY FOR EUROPEAN WILDFIRE MANAGEMENT

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Executive Summary

This document presents deliverable D6.13, entitled “Dissemination and Exploitation Plan-v.3,” which constitutes the third iteration of the deliverable within WP6 Task 6.3, "Communication and Dissemination," for the FirEUrisk project. The FirEUrisk Dissemination and Exploitation Plan was initially developed and detailed in deliverables D6.11 (“Dissemination and Exploitation Plan-v.1”) and D6.12 (“Dissemination and Exploitation Plan-v.2”). These earlier deliverables established the strategic framework and provided support for dissemination and exploitation activities aimed at advancing the project's achievements, conclusions, and outcomes concerning an integrated and comprehensive risk-based fire control strategy applicable across Europe. Building upon the project's outcomes, these efforts encompass, but are not limited to, press releases, scientific publications, conference presentations, and collaborations with other EU-funded initiatives.

This deliverable outlines the dissemination activities undertaken by the project consortium during Years 3 and 4 of the project, which have significantly enhanced the visibility of FirEUrisk among EU-funded projects and targeted audiences, in the field of wildfire research. The holistic-integrated wildfire risk assessment strategy has been presented at numerous online and in-person events. Furthermore, pilot site demonstrations have illustrated the practical applicability of the project's products, with a particular focus on wildfire prevention. Webinars organized by the consortium have effectively showcased the extensive research and outcomes of the project, evidenced by the 66 scientific publications produced by the partners up to M48 (the submission date of this deliverable), with projections indicating a further increase in this number in the subsequent months.

Finally, the exploitation tools, including the Platform, Viewer, FirEUrisk WIKI, FirEUrisk Application, Handbooks, and Training Events, will all be publicly accessible on the project website following the project's completion.

Key Take Aways Messages:

- The project consortium organized several **dissemination** events within the framework of the Work Packages' activities, with participation from targeted stakeholder groups.
- FirEUrisk has been featured in the **press media** through articles and interviews with members of the consortium. Press materials have been produced in 12 different languages.
- To date, the project has resulted in **66 scientific publications** in high- and medium-impact journals.
- The key **exploitation tools** developed by the project include the Platform, Viewer, FirEUrisk WIKI, FirEUrisk Application, Handbooks, and Training Events. These resources will be made publicly accessible via the project website upon completion of the project.

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Table of Contents

1 Introduction 9
1.1 Purpose of the document 9
1.2 Structure of the Document 9
2 Targeted Audiences for Dissemination 10
2.1 Stakeholders 10
2.1.1 Policy Makers 10
2.1.2 Civil Protection & First Responders 12
2.1.3 Environmental NGO's and Civil Society Organisations 13
2.1.4 Industries and private owners 13
2.1.5 Scientific Community 13
2.2 Social Media Agencies 13
3 Dissemination Activities during Year 3 & Year 4 15
3.1 Meetings, Pilot sites demonstrations & Webinars organised by FirEUrisk 15
3.2 Collaborations with other EU funded projects 17
3.3 Conferences including FirEUrisk dissemination 19
3.4 Publications 19
3.5 E-Newsletter & Blog Page 19
3.6 Website & Social media 20
3.7 Press activities 20
4 Scientific Dissemination 22
4.1 Analysis of Scientific Publications 22
5 Exploitation Activities 25
6 Conclusions 29
7 Annex A: Description of Stakeholders 30
8 Annex B: FirEUrisk Observatory Members 32
9 Annex C: FirEUrisk List of Publications 32

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List of Figures

Figure 1: FirEURisk targeted stakeholders 10
Figure 2: Webinars organised by FirEURisk consortium uploaded on the website- https://fireurisk.eu/webinars/ 16
Figure 3: Webinars under Training Activities organised in Y3 and Y4 16
Figure 4: Examples of joint webinars between FirEURisk and other EU funded projects organised by EUPB 17
Figure 5: FirEURisk participating into FIRELOGUE newsletters 18
Figure 6: The blog posts page on FirEURisk website 20
Figure 7: Pressbook on the website listing the FirEURisk mentioning by the press media 21
Figure 8: Analysis of the peer-reviewed publications in scientific Journals 22
Figure 9: Publications per WP 23
Figure 10: Research Articles per Variable/Component 23
Figure 11: Open Access Publications 24
Figure 12: FirEURisk Open Platform 25
Figure 13: FirEURisk WIKI 25
Figure 14: VIEWER for danger index and Human ignition probability 26
Figure 15: FirEURisk Application 27
Figure 16: FirEURisk Exploitation Tools on the Website 27

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List of tables

Table 1: List of Acronyms 8
Table 2: Main stakeholder target group for FirEUrisk during proposal phase..... 30
Table 3: The expert members of FRO..... 32
Table 4:List of the 66 scientific publications from FirEUrisk 33

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List of Acronyms

Table 1: List of Acronyms

List of Acronyms	
EU	European Union
DEP	Dissemination and Exploitation Plan
DRR	Disaster Risk Reduction
D	Deliverable
CPs	Civil Protection Services
WP	Work Package
WUI	Wildland Urban Interface
CAGR	Compound Annual Growth Rate
DoA	Description of the Action
REA	European *Research Executive Agency*
DG ECHO	Directorate General European Civil Protection and Humanitarian Aid Operations
DG HOME	Directorate General for Migration and Home Affairs
DG AGRI	Directorate General for Agriculture and Rural Development
EEA	European Economic Area
EUAB	End-Users Board
SciF	Scientific Forum
EUP	Other European Projects Board
PS	Pilot Site
JRC	Joint Research Centre
CTIF	International Association of Fire and Rescue Services
ENTSO	European Association of Power Transmission System Operators
EAA	European Agroforestry Association
UN	*United Nations*
FAO	*Food and Agriculture Organization*
IPCC	Intergovernmental Panel on Climate Change
IFAFRI	International Forum to Advance First Responder Innovation
WB	World Bank
ADAI	Association for the Development of Industrial Aerodynamics
EUC	European University Cyprus
KEMEA	Center for Security Studies
REEFMC	Regional Eastern Europe Fire Monitoring Centre

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1 Introduction

1.1 Purpose of the document

This document details the dissemination and exploitation activities undertaken by the members of the FirEURisk consortium during Years 3 and 4. These activities aimed to promote the project's achievements, products, produced documents, and results pertaining to the holistic and integrated wildfire risk assessment strategy developed within the project. During Years 3 and 4, the dissemination efforts primarily focused on the progress and extensive work conducted within WP2, WP3, WP4, and WP5.These activities include, but are not limited to:

- FirEURisk Pilot Site demonstrations,
- Organization of meetings and webinars,
- Participation in meetings and webinars,
- Conference participation and presentations,
- Scientific publications,
- Media press releases.

Further dissemination and exploitation activities included webinars and meetings with other EU-funded projects under the auspices of the EUP board (Other European Projects Board), as detailed in Deliverable D6.3, "FirEURisk Network Sustainability Plan v.2"; open-to-the-public training activities demonstrating the developed tools, as presented in Deliverable D6.5, "Training Organisation v.2"; and the results of the communication strategy for the project outcomes via the FirEURisk social media channels, as detailed in Deliverable D6.8, "Communication Plan v.3."

1.2 Structure of the Document

The updated Dissemination and Exploitation Plan and its associated dissemination activities are structured across six sections. Section 1 comprises the Introduction, while Section 2 analyses the targeted audiences for dissemination, including illustrative examples of activities undertaken throughout the project's duration. Section 3 details the dissemination actions implemented in Years 3 and 4. A comprehensive analysis of the scientific publications is provided in Section 4. Section 5 presents the exploitation tools developed by the project over the course of its implementation, with the majority of these becoming available in Year 4.

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2 Targeted Audiences for Dissemination

To ensure the effective dissemination of project results, the initial plan, Deliverable D6.11, "Dissemination and Exploitation Plan - v.1," defined specific target audiences, encompassing end-users and policy influencers. This document summarizes these target audiences, as detailed in Deliverable D6.11, and provides illustrative examples of the dissemination efforts undertaken to engage them.

2.1 Stakeholders

For maintaining FirEUrisk's adaptability to evolving environments, the stakeholders identified in Deliverable D6.11 and detailed in Annex A are subject to regular monitoring and review, see Figure 1. This ongoing monitoring facilitates timely adjustments in response to developments in policy, legislation, and scientific/technological domains.

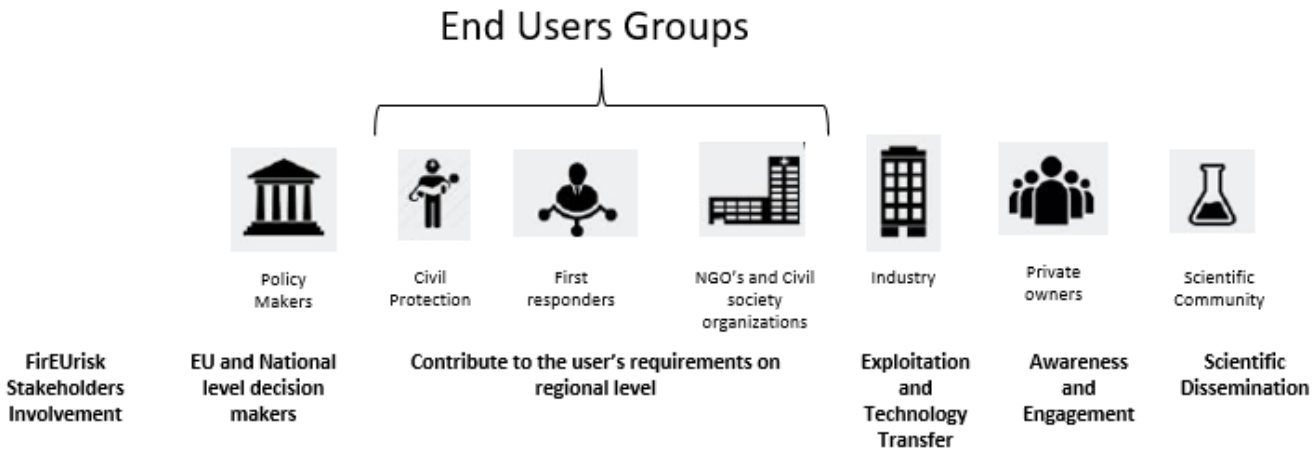


Figure 1: FirEUrisk targeted stakeholders

2.1.1 Policy Makers

The engagement of policymakers established interactive channels to connect FirEUrisk's research, tools, and policy actors across various administrative levels. This strategic approach aimed to ensure that the project's concept, methodology, and achievements influenced relevant national and European policy decisions and planning processes.

As detailed in Deliverable D6.11, dissemination efforts at the European policy level focused on the Research Executive Agency (REA), the Directorate-General for European Civil Protection and Humanitarian Aid Operations (DG ECHO), the Directorate-General for Migration and Home Affairs (DG HOME), the Directorate-General for Agriculture and Rural Development (DG AGRI), the European Environment Agency (EEA), the Council of Europe, and the Joint Research Centre (JRC). Furthermore, engagement extended to the International Association of Fire and Rescue Services (CTIF), the European Association of Power Transmission System Operators (ENTSO-E), and the European Agroforestry Federation (EAF). Representatives from these organizations were invited to participate in the project's interactive events and contributed to round table discussions to exchange opinions and ideas concerning the FirEUrisk approach. A collaboration was established with the CERIS (Community for European Research and Innovation for Security)[1] initiative of DG HOME (formerly known as the Community of Users), within which debate sessions on wildfire management policies and technological solutions were organized during Years 3 and 4 of the project. These sessions coincided with the completion of the policy review analysis and roadmap under Task 6.4, "Policy Review, Integration and Operational Exploitation," within WP6, "Policy Integration & Outreach - Networking & Dissemination." The dissemination actions

[1] https://ec.europa.eu/home-affairs/secure-safe-resilient-societies/index_en

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undertaken by the project targeting policymakers are described in detail in Deliverable D6.14, "Policies Review," issued in M28, and Deliverable D6.15, "Policy Integration with FirEURisk Roadmap," issued in M48.

Best policy practices for wildfire management within the EU Member States represented by the consortium were collected in Year 1. The analysis of these practices was completed and presented by M28 (Year 2) of the project and subsequently submitted as Deliverable D6.14, "Policies Review." To strengthen the discussion on wildfire risk assessment strategies between the consortium and policymakers at the national level (specifically in Portugal, Spain, Greece, and Croatia), four webinars were organized throughout the project's four-year duration, as listed below:

- In March 2022 (M11), a presentation entitled "An Integrated Programme of Wildfire Risk Management, The Case of Portugal" was delivered. Further information is available on the FirEURisk website. https://fireurisk.eu/event/an-integrated-program-of-wildfire-risk-management-the-case-of-portugal/
- In February 2023 (M23), a presentation on the "Spanish Strategy of Fire Risk Assessment Reduction and Adaptation: From National to Local Pathways in Fire Management" was delivered. A description of this event can be found on the FirEURisk website. https://fireurisk.eu/event/webinar-on-the-spanish-strategy-of-fire-risk-assessment-reduction-and-adaptation/
- In May 2023 (M26), a webinar entitled "Strategies Towards Wildfire Risk Management: The Greek Experience - From Local Case to a Common European Approach" was held. A description of this webinar is available on the FirEURisk website. https://fireurisk.eu/event/strategies-towards-wildfire-risk-management-the-greek-experience/
- In February 2024 (M33), a webinar on "Wildfire Risk Management in Croatia" was held. Further details regarding this event can be found on the FirEURisk website. https://fireurisk.eu/event/online-webinar-on-wildfire-risk-management-in-croatia/

Furthermore, a preliminary review of European fire policies was presented during a webinar organized collaboratively by FirEURisk, Pyrolife, and FireLINKS in April 2023 (M25), under the title "Preliminary Outcomes on Wildfire Risk Management, Citizen Engagement, and Policy Review in Europe." Further details are available on the FirEURisk website at https://fireurisk.eu/event/preliminary-outcomes-on-wildfire-risk-management-citizen-engagement-and-policy-review-in-europe/. This webinar was organized by the project's EUP board and is described in detail in Deliverable D6.3, "FirEURisk Network Sustainability Plan - v.2," issued in M48.

Additionally, in M32, a Policy Brief document entitled "Advancing Wildfire Management in a Climate Change Context: A Call for the Integration of Holistic Ecosystem and Landscape Management Frameworks in EU Policies" (https://fireurisk.eu/reports/) was published with the aim of bridging the gap between research and policy in wildfire management. Authored by the FirEURisk Steering Committee and the Chairman of the project's Quality Review Board, this document reflects the project's ongoing work. Input from Mr. N. Faivre of the REA enhanced an earlier draft, ensuring that the paper provides a synthesis of cutting-edge scientific approaches and emergent policy perspectives, designed to inform future wildfire management strategies at national and EU levels. This paper was the result of a collaborative effort involving the FirEURisk project, the RISE-SD 2023 Wildfire Management Workshop in Rhodes, Greece, and the FIRELOGUE project.

Moreover, another document, entitled "Policy Brief on Shifting to a Holistic Approach in National Wildfire Management: Country: Italy" (https://fireurisk.eu/reports/), was developed by members of the consortium. This document offers a thorough examination of Italy's wildfire management policies, emphasizing the urgent need for a shift towards a holistic approach encompassing prevention, mitigation, and response. By providing a historical context, evaluating the efficacy of existing policies, and pinpointing areas for improvement, the document identifies critical gaps in the current framework. Ultimately, it delivers actionable recommendations designed to strengthen Italy's wildfire resilience and promote sustainable management practices, thereby contributing to the broader FirEURisk goal of informing and improving wildfire policies across EU Member States.

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The Pilot Site demonstrations and other webinars showcasing the project's products were attended by representatives from fire management agencies within EU Member States, first responders, and members of international organizations (e.g., REEFMC, EFFIS). Furthermore, in-person discussions were conducted at events such as the FIRELOGUE 2nd Clustering Event, the 7th DRMKC Annual Seminar: A Roadmap to Disaster Resilience, a Wildfires Experts meeting in which the project coordinator participated (all in M32), and at the Civil Protection Forum (M35).

The FirEUrisk Observatory (FRO) and the End-Users Advisory Board (EUAB) offer supplementary channels for disseminating project results to policymakers through their respective memberships, which encompass both global fire experts and high-ranking officials.

2.1.2 Civil Protection & First Responders

The FirEUrisk Observatory (FRO) and the End-Users Advisory Board (EUAB) were established at the project's inception, thereby fulfilling the commitment to engage Civil Protection services (CPs) and first responders, as outlined in the letters of support accompanying the proposal.

The FRO maintains close involvement in project development and outcomes, offering guidance on optimal approaches and strategies for project activities, specifically fire management. The FRO's membership comprises a diverse group of experts with varied backgrounds and disciplines, including both scientists and end-users who demonstrate a high level of engagement with the complexities of forest fire management at national, European Union, and global scales. The FRO has reinforced the project's achievements at the strategic level and contributed to the elaboration of improved policies recommended at both national and European Union levels. Furthermore, the FRO has played a significant networking role, establishing connections and facilitating the dissemination of relevant FirEUrisk events and activities. Its members have also provided insights through relevant documents and presentations at open meetings and webinars. The expert members continue to provide guidance and an independent evaluation of the project's activities and generated results, as well as support other crucial requirements, namely enhancing the project's impact, exploitation plans, legacy, the conceptual integration of diverse risk products within the FirEUrisk framework, and the dissemination of the project's outputs. As part of their designated role, the members of the FRO participated in events organized by FirEUrisk and were invited to contribute to training, demonstration, and pilot site activities. A selection of these activities and events is listed in Table 2:

Table 2: List of meetings and events with relevant FRO Members participation

Topic	Date
Fire risk assessment	June 2021
Fire risk reduction to improve protection	September 2021
Major fire events of 2021 in the Mediterranean Basin: lessons learned and new challenges	December, 2021
Fire risk adaptation and future scenarios	January, 2022
An Integrated Program of Wildfire Risk Management – The Case of Portugal	March, 2022
Networking and Strengthening cooperation with the international community	April, 2022
Forest Fires in Central Europe	October, 2022
Spanish strategy of fire risk assessment, reduction and adaptation	February, 2023
Wildfire management organization in Greece	May, 2023
Croatia Fire Management	February, 2024
Integrated wildfire risk management strategy (IWRM) for Europe	January, 2025

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A list of the expert members of the FRO is provided in Annex B: FirEUrisk Observatory Members.

The EUAB was established at the project's inception under Activity A6.1.1, "End-Users Board." Subsequently, meetings were organized, and the 15 members were actively involved in the development of the project's products and outcomes. The contributions of the EUAB are detailed in dedicated sections of Deliverable D6.1, "FirEUrisk Network Establishment and Register"; Deliverable D6.2, "FirEUrisk Network Sustainability Plan - v.1"; and its latest iteration, Deliverable D6.3, "FirEUrisk Network Sustainability Plan - v.2," covering Years 3 and 4, scheduled for submission in M48.

2.1.3 Environmental NGO's and Civil Society Organisations

The engagement of Environmental Non-Governmental Organizations (NGOs) and Civil Society Organizations (CSOs) was crucial to FirEUrisk, serving both to disseminate its solutions to the global disaster response community and to encourage the adoption of its outcomes.

This engagement was initiated early in the project's lifecycle and continued until its completion. Their participation on the FRO board and through invitations to project meetings, webinars, round-table discussions, and pilot demonstrations facilitated timely feedback and provided valuable insight into their emergency procedures.

2.1.4 Industries and private owners

The engagement of industries and private landowners aimed to facilitate the adoption and commercialization of the project's final developments. FirEUrisk fostered multi-disciplinary innovation, emphasizing data integration and accessibility across various devices and services, with a specific focus on the paper, timber, tourism, bioenergy sectors, and private landowners during the latter stages of the project.

Members of the EUAB within this stakeholder category include the Forest Ownership Centre (Spain), the MSB Swedish Civil Contingencies Agency (Sweden), and Holmen Skog AB (Sweden). Representatives from insurance companies and forest management companies have attended webinars and conferences, indicating an interest in the project's products.

2.1.5 Scientific Community

The engagement of the Scientific Community has been accomplished since the project's inception, initially through the establishment of the Scientific Forum (SciF) composed of scientists within the EU and internationally, and secondly through networking activities and collaboration with other EU-funded projects in the field of wildfires via the Other EU-funded Projects Board (EUPB). A detailed description of the activities of both aforementioned entities for Years 3 and 4 can be found in the dedicated deliverable document D6.3, "FirEUrisk Network Sustainability Plan - v.2," issued in M48, with previous actions detailed in D6.1, "FirEUrisk Network Establishment and Register," and D6.2, "FirEUrisk Network Sustainability Plan." Additionally, Section 3 of this document provides a list of examples of networking events aimed at project dissemination.

2.2 Social Media Agencies

Considering their capacity to engage the public and disseminate information regarding scientific and fire management activities, social media professionals and agencies are crucial in the context of wildfire management. FirEUrisk's communication plan, as documented in Deliverable D6.8, "Communication Plan - v.3," issued in M48, outlines the project's strategies for leveraging these professionals to establish sustainable social media networks aimed at promoting its outcomes.

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Furthermore, the Final Video of the project has been prepared and is officially published on the website and social media platforms. This video provides a concise description of the project's extensive work and the efforts undertaken by the consortium partners (D6.10-Final Video).

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3 Dissemination Activities during Year 3 & Year 4

The dissemination activities for the FirEUrisk project during Years 3 and 4 were focused on presenting the extensive work undertaken by the consortium across all Work Packages (WPs). These activities encompassed webinars either organized by the partners or attended by them, training sessions, pilot site demonstrations, conferences, press releases, and scientific publications.

3.1 Meetings, Pilot sites demonstrations & Webinars organised by FirEUrisk

During the final two years of the project (Years 3 and 4), several dissemination activities were conducted, including six Pilot Site demonstrations to present the products developed for each pilot site. Furthermore, additional webinars and meetings were organized. All events are documented on the dedicated webpages of the project website, including recordings where available.

The initial dedicated events for the Pilot Site (PS) demonstrations are listed below, with further details available in the relevant deliverables under WP5.

- PS1 - Northern Europe, Kalmar County in Southeast Sweden, featured a demonstration entitled "Focus on Future Risk Scenarios" (https://fireurisk.eu/nothern-europe/) and was organized in M38.
- PS2 - Central-Eastern Europe, encompassing Southern Brandenburg and Eastern Saxony in Germany, North Bohemia in Czechia, and Lower Silesia in Poland, featured a demonstration entitled "Focus on Transboundary Cascading Effects" (https://fireurisk.eu/central-eastern-europe/) and was organized in M34.
- PS3 - Mediterranean Portugal, specifically the Central Region of Portugal, featured a demonstration entitled "Focus on Fire Risk Reduction and Prevention, Forest Management, and Wildland-Urban Interface (WUI)" (https://fireurisk.eu/mediterranean-portugal/) and was organized in M32.
- PS4 - Mediterranean Spain, specifically the province of Barcelona, featured a demonstration entitled "Focus on Wildland-Urban Interface (WUI), Forest and Fuel Management, and Resilient Landscapes" (https://fireurisk.eu/mediterranean-spain/) and was organized in M27.
- PS5 - Mediterranean Greece, specifically the Attica region, featured a demonstration entitled "Focus on Catastrophic Peri-Urban Wildfires" (https://fireurisk.eu/greece/) and was organized in M39.
- A demonstration focused on European Territory Fire Risk, showcasing FirEUrisk products at a European scale (https://fireurisk.eu/european-territory/), was organized in M42.

The following are examples of other dissemination events organized by the FirEUrisk consortium; see Figure 2 and Figure 3:

- In M25: A webinar “Preliminary outcomes on wildfire risk management, citizen engagement and policy review in Europe”.
- In M26: A webinar “Strategies towards wildfire risk management: the Greek experience”.
- In M32: A demonstration Event “Advancing fire risk assessment, reduction and adaption: insights from the FirEUrisk Project and its application to the Coimbra and Leiria Intermunicipal Communities”.
- In M35: A webinar “Wildfire Risk Management” in Croatia.
- In M36: A FirEUrisk Plenary Meeting “Facing the final year: lessons learned and expected results”, in Athens Greece, last session was opened to EUAB, FRO, SciF and coordinators of other EU funded projects.
- In M43: A FirEUrisk Plenary Meeting “Strategic roadmap to project completion” in Alghero, Sardinia, where local first responders attended.
- In M44: Training Event “Guidelines and tools for extreme fire and fire in WUI management”, https://fireurisk.eu/training-event-materials/ under the A6.2.2-Training Activities. Further details can be found in D6.5-Training organisation v.2.
- In M46: A webinar “Integrated wildfire risk management strategy (IWRM) for Europe”.

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- In M47: A training Webinar, "Understanding climate scenarios and data for wildfire studies", https://fireurisk.eu/training-event-materials/ under the A6.2.2-Training Activities. Further details can be found in D6.5-Training organisation v.2.
- In M48: A webinar with the title "FirEUrisk Information, Data and Visualisation Tools Webinar".
- In M48: During the 9th Final Plenary Meeting, there was a "Session dedicated for presenting the project outcomes to Spanish end-users".
- In M48: A webinar with the title "Adaptation on future climate conditions".



Figure 2: Webinars organised by FirEUrisk consortium uploaded on the website- https://fireurisk.eu/webinars/

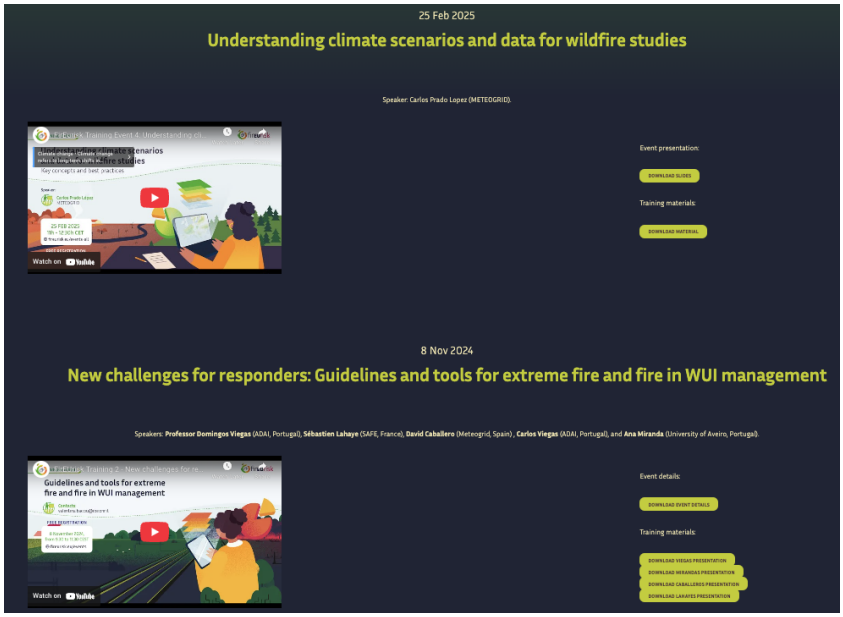


Figure 3: Webinars under Training Activities organised in Y3 and Y4

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3.2 Collaborations with other EU funded projects

Collaboration with other EU-funded projects within the study scope of wildfire management is crucial for the project's advancement and dissemination, as previously indicated. Therefore, in accordance with the projections outlined in the project's Grant Agreement (GA), the EUPB has established relationships and communicated with these projects to ensure connectivity by developing a network with ongoing EU-funded Research and Development (R&D) projects relevant to FirEUrisk's study themes.

One of the most significant collaborative relationships established is with FIRELOGUE (HORIZON 2020-Green Deal Call) in M10, as mentioned in the Deliverable D6.12 report, "Dissemination and Exploitation Plan - v.2". The FIRELOGUE consortium comprises researchers and civil society organizations possessing extensive experience and knowledge across all aspects of Wildfire Risk Management (WFRM). Further details regarding the actions undertaken within this collaboration are provided in Deliverable D6.3, "FirEUrisk Network Sustainability Plan - v.2."

The following activities were organized, in which the consortium participated up to March 2025 (M48); see Figure 4:

- M25: A Webinar, was held in collaboration with FIRELinks and the Pyrolife ITN entitled “Preliminary outcomes on the wildfire risk management”.
- M26: A collaborative workshop on wildfire management and policies was held with FIRELOGUE, TREEADS, and SILVANUS at the RISE-SD 2023 event, which involved Green Deal projects.
- M31: A seminar on protection from wildfires was held in Cyprus, in collaboration with the "Forest Fire Self Protection" (ERASMUS+) project.
- M32: The FIRELOGUE Annual Seminar and Wildfire Risk Management (WFRM) Project Clustering Event was held in Brussels.
- M35: At the Civil Protection Forum in Brussels, FirEUrisk results and products were presented at a dissemination booth.
- M45: The project participated in a panel discussion at the Nicosia Risk Forum 2024, alongside FIRELOGUE, PYROLIFE ITN, and SILVANUS.
- M47: Two webinars were held in collaboration with SILVANUS under the title "Managing and Living with Wildfires in Europe: Highlighting Integrated Wildfire Risk Management from FirEUrisk & SILVANUS."
- Subsequent to the project's completion, the Final Wildfire Risk Management (WFRM) Clustering Event 2025 (Clustering Event 03) will be organized.
- FirEUrisk contributed to and was featured in FIRELOGUE newsletters, see Figure 5.



Figure 4: Examples of joint webinars between FirEUrisk and other EU funded projects organised by EUPB

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Figure 5: FirEUrisk participating into FIRELOGUE newsletters

Additional dissemination activities have been undertaken by the consortium and are listed below, as also detailed in Deliverable D6.3, "FirEUrisk Network Sustainability Plan - v.2":

- The project coordinator, ADAI, participated in the FIRE-RES Workshop within the program of the International Wildfire Conference, which was held in Porto in M26.
- ADAI, in collaboration with EUC, participated in a meeting organized by FIRELOGUE in M28. During this meeting, SAFERS presented the Horizon Result Booster, FIRE-RES presented its 'Media Contingency Plan,' and the new events and actions under Wildfire Risk Management (WFRM) for the projects' dissemination were subsequently discussed, including the sharing of dissemination activities and posts from FIRELOGUE.
- Furthermore, the FirEUrisk project was presented at the webinar entitled "Wildfires and Forest Management (III)," which was organized within the scope of the CSA - MAIA, coordinated by AIT, Austria. This online presentation took place in M29 (August 9, 2023).
- CSIC presented its work undertaken as part of the project to the FireLinks consortium during a meeting held at the University of Niš, Čarnojevićeva, in M27 (May 31, 2023 - June 2, 2023), and subsequently at a workshop organized by FireLinks at the International Institute for Applied Systems Analysis (IIASA) in Austria (June 5, 2023 - June 7, 2023).
- Several partners within the consortium attended the FIRE-RES Open Innovation Challenge Q&A Webinar, held in M31 (October 18, 2023), as part of the project's networking activities with other EU-funded projects led by EUC. Prior to the webinar, EUC participated in a meeting with the FIRE-RES communication team to discuss strategies for assisting FIRE-RES with their university outreach. During this meeting, the organization of a joint webinar with FIRE-RES was also discussed.
- In M32, the project was significantly represented at the 7th DRMKC Annual Seminar: A Roadmap to Disaster Resilience, which was organized by the Union Civil Protection Knowledge Network in Brussels on November 21, 2023. ADAI, EUC, KEMEA, and other partners participated in the workshops.
- In M32 (November 23, 2023), ADAI participated in and briefly presented the project at the 47th Meeting of the Commission Expert Group on Forest Fires in Brussels.

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- In M37, AUTH participated in and presented the project outcomes at a meeting organized locally in Greece as part of the working group activities of FIRELOGUE.
- In M42, UDL presented the FirEUrisk mobile applications at the NERO-Café online meeting.

3.3 Conferences including FirEUrisk dissemination

The project partners participated in and presented FirEUrisk at various conferences throughout the project's duration, both through online platforms and in-person attendance. The following list details the conferences held during the final two years (Years 3 and 4):

- M25: EGU General Assembly 2023, Austria.
- M25: 9th International Symposium on Remote Sensing of Environment 2023, Turkey.
- M26: RISE-SD 2023 Conference - Workshop on Wildfire Management Innovation and Policies, Greeece.
- M26: 8th International Wildlife in and Fire Conference, Porto, Portugal.
- M28: 2nd International Congress on Fire in the Earth System: Humans and Nature, Spain.
- M30: 8th International Conference on Smart and Sustainable Technologies, Croatia.
- M30: 16th Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Greece.
- M30: September 2023, International Conference on Smart and Sustainable Technologies, Croatia.
- M37: IAWF Fire Behaviour and Fuels Conference, Ireland.
- M37: EGU General Assembly, Austria.
- M39: 8th Copernicus Atmosphere Monitoring Service (CAMS) General Assembly, Brussels.
- M39: International Conference on "Numerical Methods for Scientific Computations and Advanced Applications," Bulgaria.
- M44: Nicosia Risk Forum 2024, Cyprus.

3.4 Publications

To date, the consortium has produced 66 peer-reviewed publications across various scientific journals, conference proceedings, and book chapters. The partners have continued to generate further scientific publications based on the project's progress and research outcomes from Work Packages 1, 2, 3, and 4. A detailed list of these scientific publications is provided in Annex C: FirEUrisk List of Publications. A detailed list of the scientific publications and a detailed analysis of them is included in Section 4.

3.5 E-Newsletter & Blog Page

A total of three newsletters were developed by the project's communication partner to provide information on the project's development. The first newsletter was released in Year 1 (https://fireurisk.eu/newsletter-01/), the second detailed the progress and subsequent activities and actions during Year 3 (https://fireurisk.eu/newsletter-02/), followed by the third, which covered the final Year 4 of the project (https://fireurisk.eu/newsletter-03/).

Furthermore, the communication partner established and maintained a blog page on the project website (https://fireurisk.eu/blog/), where articles focusing on the project and recent news are published (see Figure 6).

A comprehensive analysis of both of the aforementioned communication channels is provided in Deliverable D6.8, "Communication Plan - v.3," also issued in M48.

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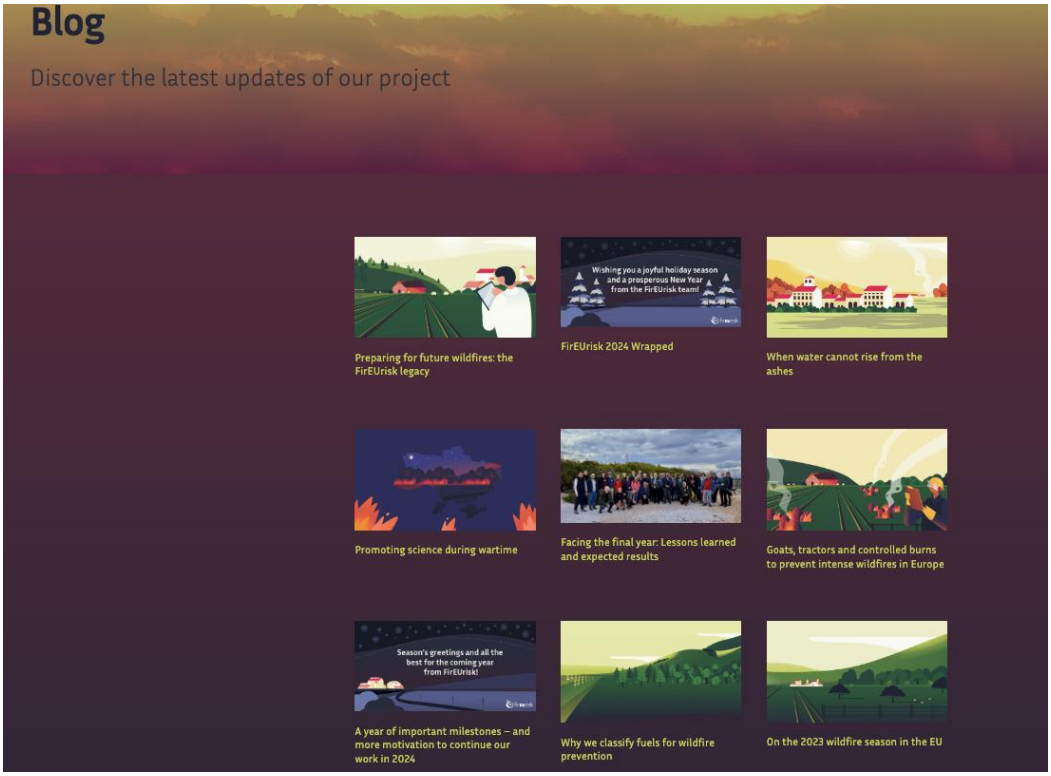


Figure 6: The blog posts page on FirEUrisk website

3.6 Website & Social media

The FirEUrisk website has been consistently monitored and updated throughout the project's duration by the communication manager. During Years 3 and 4, new pages were created to host the project's outcomes from the pilot site demonstrations, Policy Papers, and Reports, as well as links to the exploitation tools: Open Platform, FirEUrisk WIKI, VIEWER, and FirEUrisk Application. These exploitation tools are presented in Section 5.

As in preceding years (Years 1 and 2), information regarding upcoming events, webinars, training activities, publications, and deliverables has been uploaded and kept current. A detailed analysis of the performance and impact of the project's social media presence is provided in Deliverable D6.8, "Communication Plan - v.3," demonstrating the increased number of followers and views, thereby meeting and surpassing the project's Key Performance Indicators (KPIs).

The project coordinator, ADAI, has been in discussions with the European Forest Fire Information System (EFFIS) to host the FirEUrisk Website and its related tools after the project's official completion and final review.

3.7 Press activities

Subsequent to the preparation of press kit documents (https://fireurisk.eu/resources/) and the development of a journalist database for distributing press releases to media outlets across Europe, as detailed in Deliverable D6.7, "Communication Plan - v.2," and Deliverable D6.12, "Dissemination and Exploitation Plan - v.2," press releases were prepared and disseminated throughout the project's duration. In instances of significant wildfire events occurring in Europe and internationally, the FirEUrisk project was referenced by press media in articles, television interviews, and, more recently, podcasts following interviews with consortium members. A comprehensive list of these media engagements can be found on the dedicated website page (https://fireurisk.eu/pressbook/) (see Figure 7). It is also noteworthy that press activities have been documented in 11 languages in addition to English.

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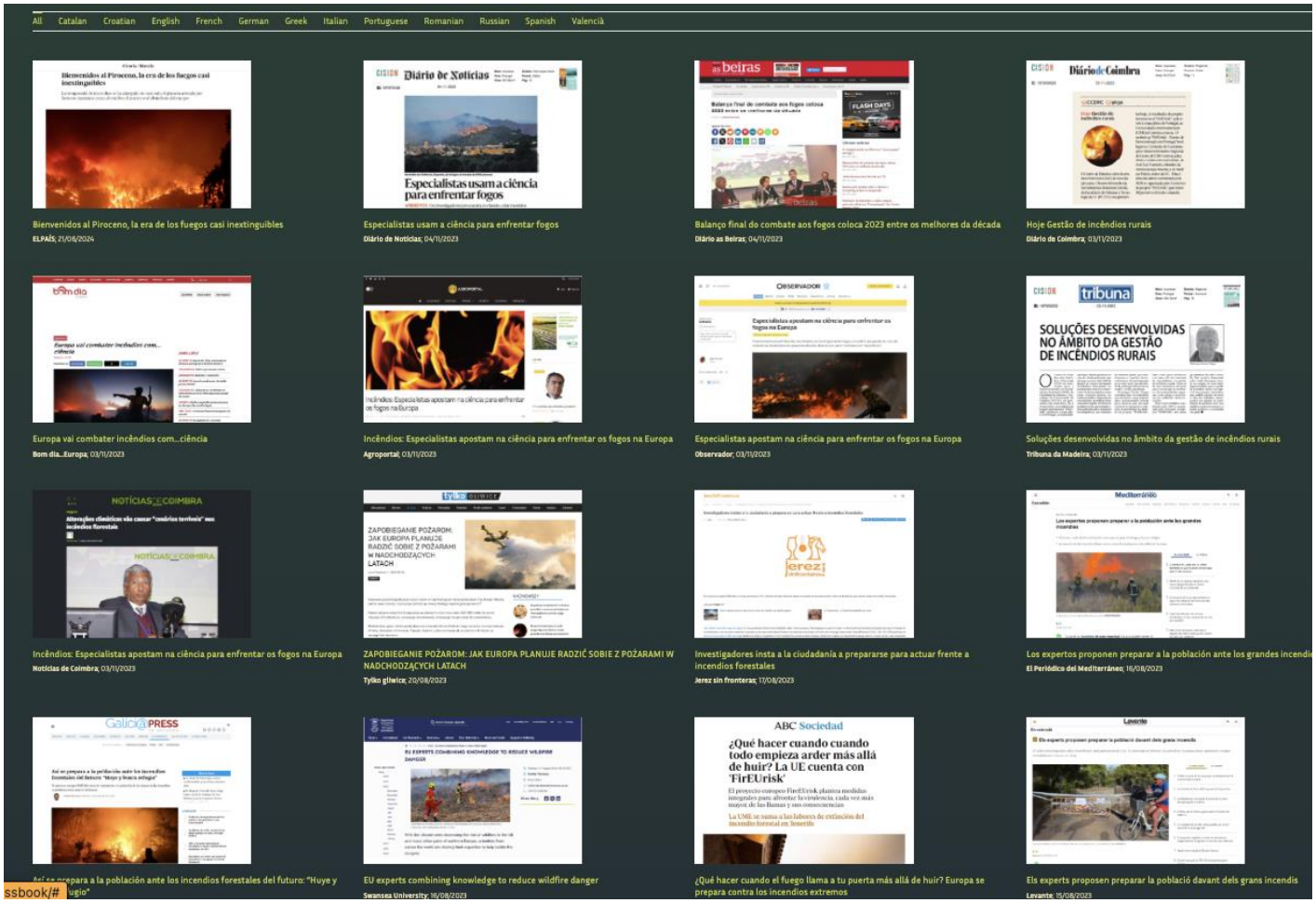


Figure 7: Pressbook on the websites listing the FirEUrisk mentions by the press media

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4 Scientific Dissemination

4.1 Analysis of Scientific Publications

As of the preparation and issuance of this deliverable, the consortium has produced 66 peer-reviewed publications across various scientific journals, conference proceedings, and book chapters. The partners have continued to generate further scientific publications based on the project's progress and research outcomes. These publications present the scientific work and research results pertaining to Work Packages 1, 2, 3, and 4. It is important to note that the research analysis and results detailed in these scientific publications have been implemented in Work Package 5 for the pilot site demonstrations. A comprehensive list of the scientific publications is provided in Annex C: FirEURisk List of Publications.

For scientific dissemination, high-impact and medium-impact scientific journals were targeted for peer-reviewed publications. Figure 8 illustrates the scientific journals in which the consortium has published its significant research. More specifically, Figure 8 presents an analysis of the number of publications and the impact factor of the 36 corresponding scientific journals (as per the time developing current document). The scientific journals most frequently targeted by the consortium with successful publications include the "International Journal of Wildland Fire," with 13 publications, followed by "Fire," with 7 publications. The contribution of each Work Package to the scientific dissemination of the project is illustrated in Figure 9.

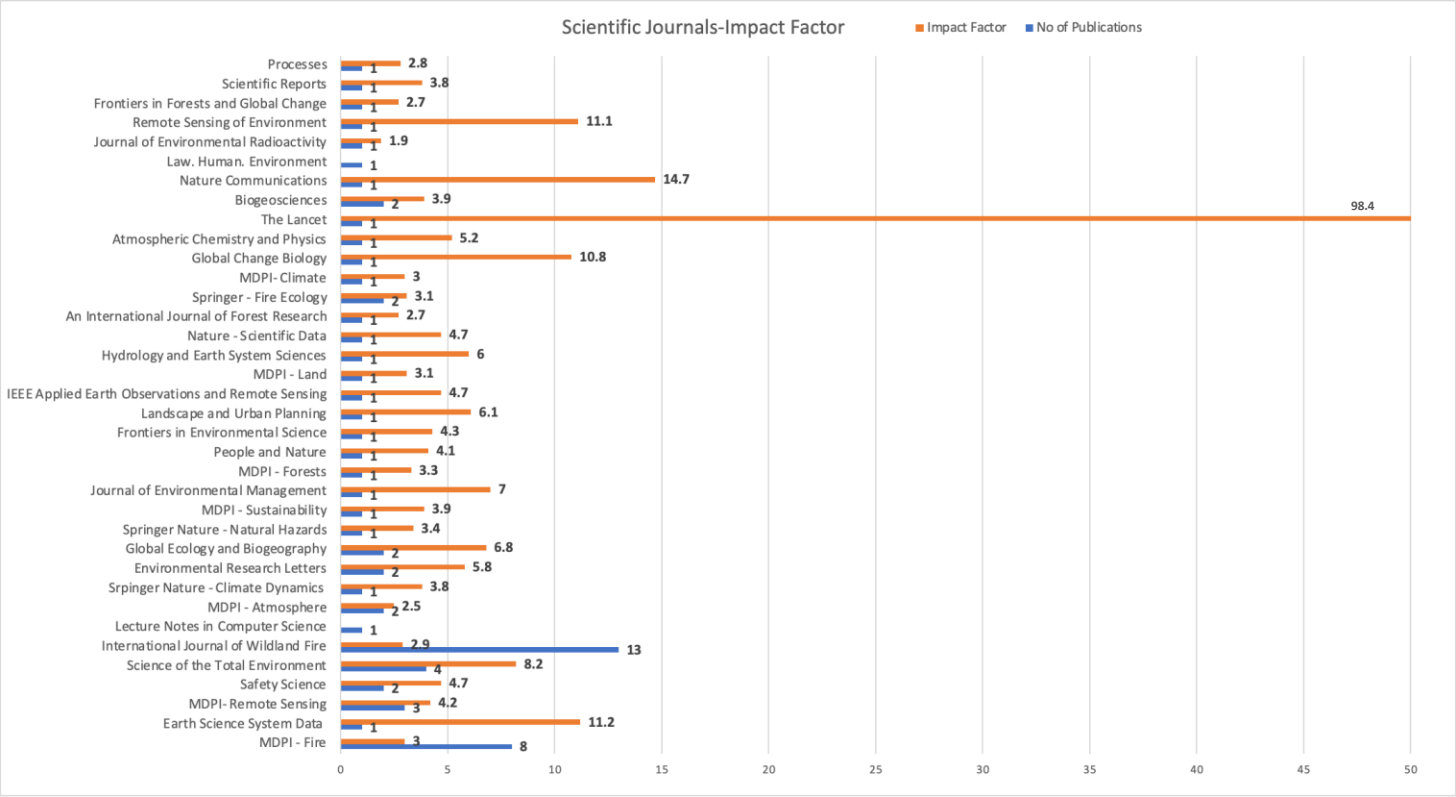


Figure 8: Analysis of the peer-reviewed publications in scientific Journals

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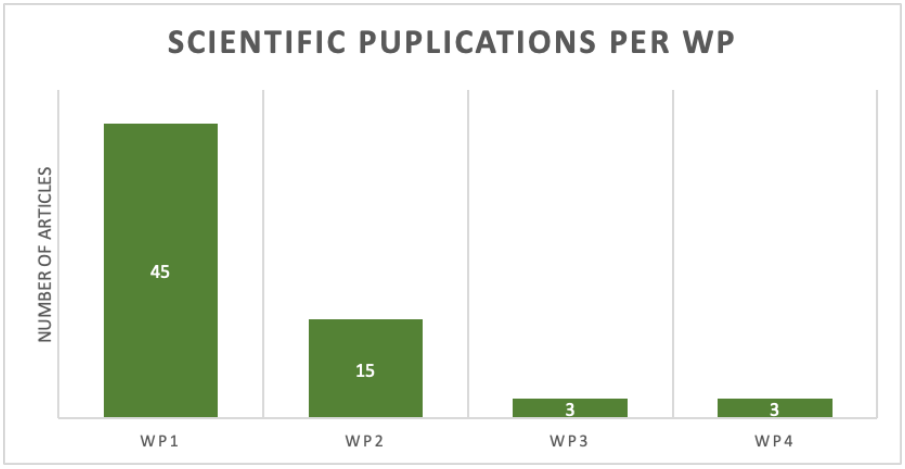


Figure 9: Publications per WP

Figure 10 illustrates the variables or components by which the research articles are categorized based on their context. These categories include Fuels, Fire Policies, Fire Danger, Exposure, Propagation, Fire Reduction, Weather, Fire Risk Assessment, Ecosystems, Natural (Natural Ingitions), Population & Assets, and Ecological Values. According to the figure, the most prevalent variable is "Fuels," encompassing 14 research articles, followed by "Propagation" with 8 articles, and "Exposure" and "Weather" with 7 research articles each. These main keywords or components are derived from the holistic integrated approach to wildfire risk assessment developed by the FirEUrisk project, as demonstrated in Figure 10.

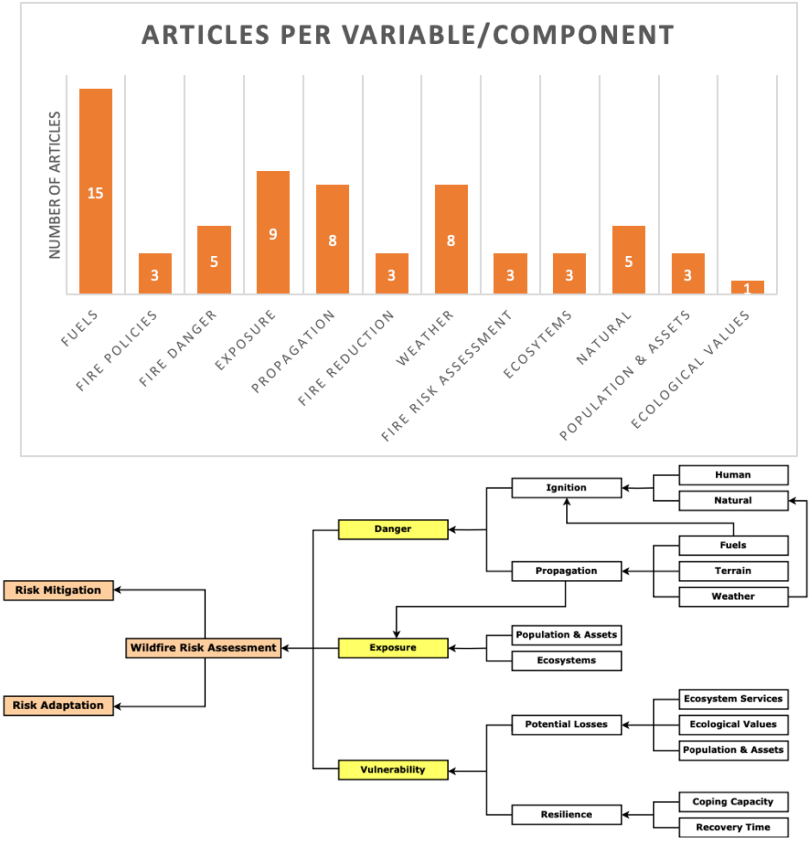


Figure 10: Research Articles per Variable/Component based on the FirEUrisk diagram

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In conclusion, it is important to note that all scientific publications adhere to the "Open Access" mandate as stipulated in the Grant Agreement (GA). Among these, 30 publications are classified as "Gold Open Access," while the remaining 36 are "Green Open Access," as illustrated in Figure 11.

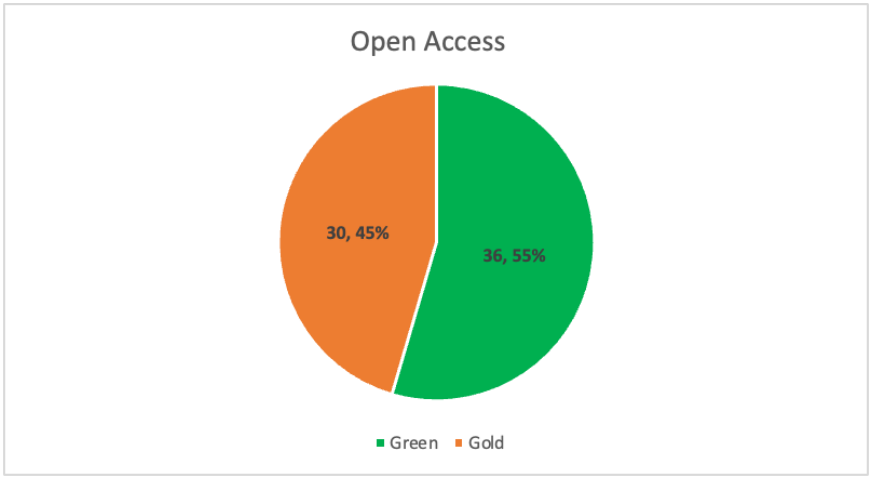


Figure 11: Open Access Publications

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5 Exploitation Activities

The exploitation plan, as detailed in Deliverable D6.11, "Dissemination and Exploitation Plan - v.1," is largely completed in Year 4, coinciding with the project's conclusion. Exploitation activities are defined as those that provide public access to the project's outcomes, products, and overall results. These include, among others, European fuel mapping, a wildfire integrated risk index, vulnerability studies, and extreme future fire data (see the detailed analysis in other Work Packages).

All products, including those previously mentioned, are accessible through the Open Platform (see Figure 12), which also provides a link to the FirEUrisk WIKI. The WIKI offers a description for each parameter and variable within the integrated wildfire risk assessment diagram and the related products (see Figure 13). The VIEWER has been developed to illustrate each product on the map, rendering it visually clear for the user (see Figure 14). All of the aforementioned resources have been developed under the activities of Work Package 4 - Multi-level Integration and are described in detail in the relevant submitted deliverables for each.

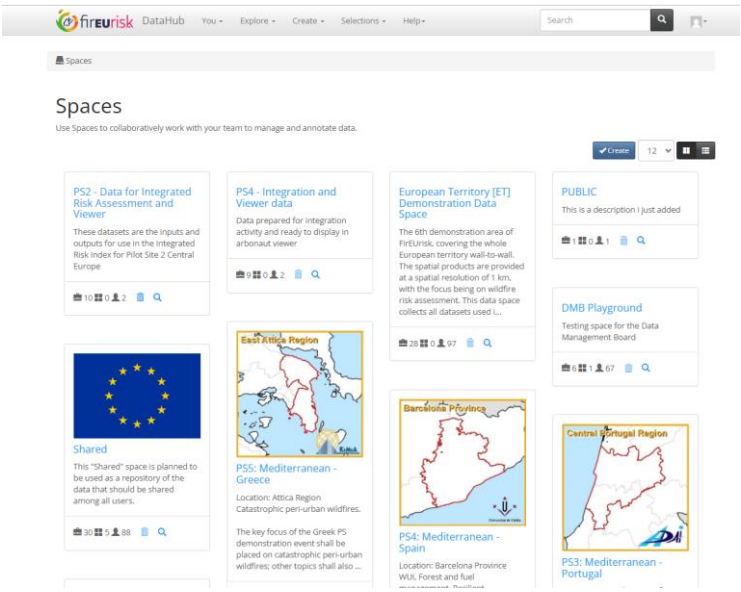


Figure 12: FirEUrisk Open Platform

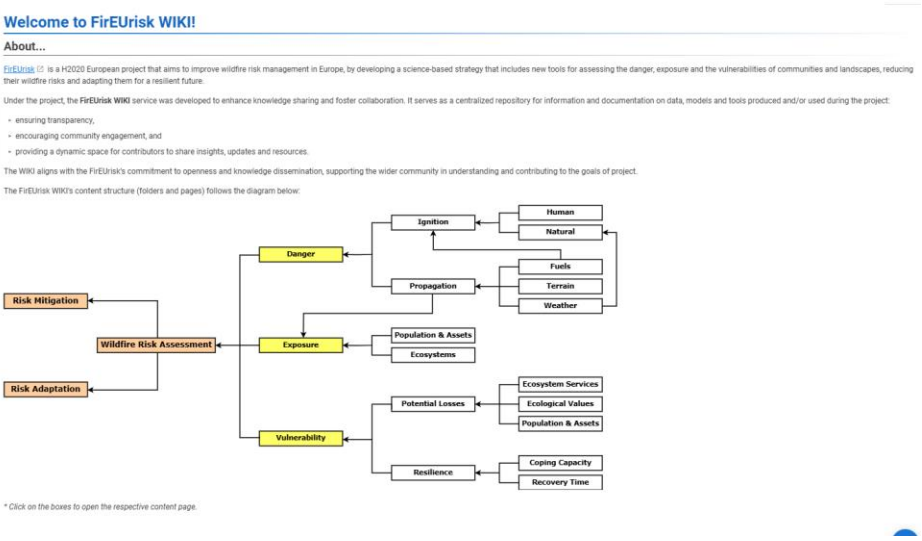


Figure 13: FirEUrisk WIKI

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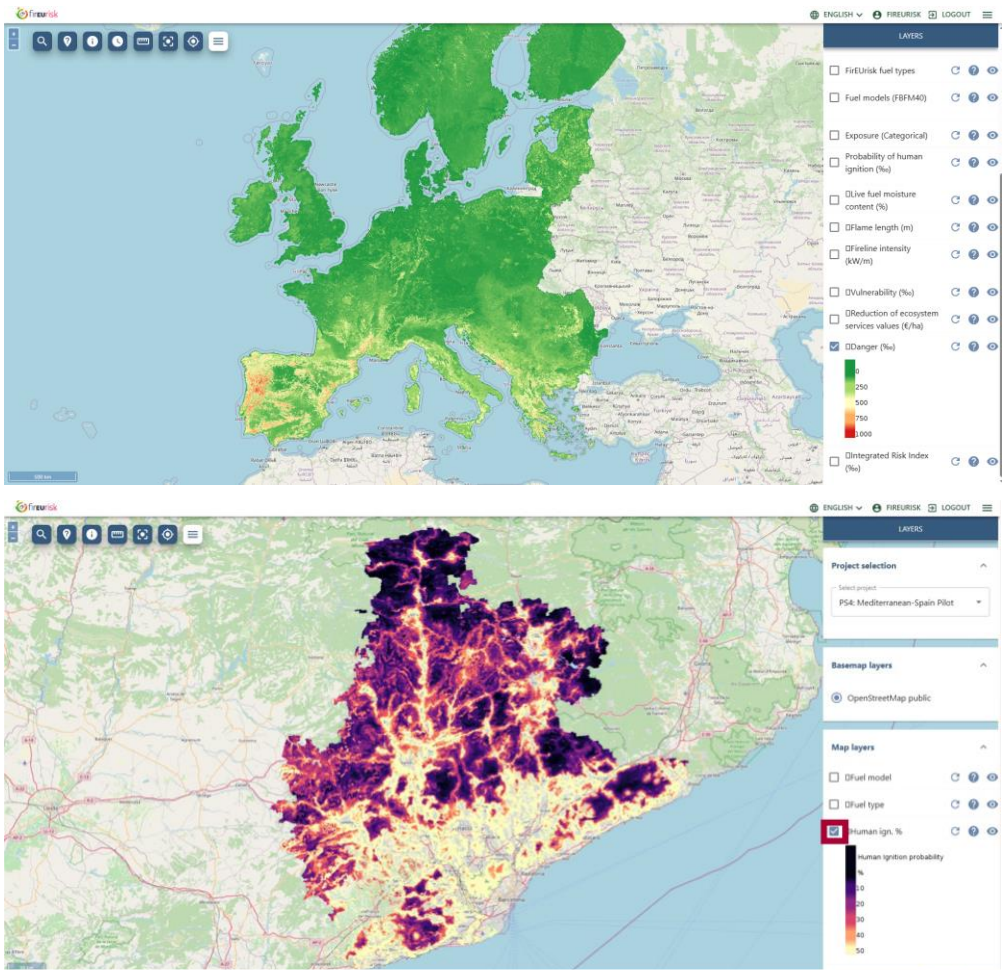


Figure 14: VIEWER for danger index at European scale and Human ignition probability for the Spanish pilot site.

Another tool is the FirEUrisk mobile Application, developed during Year 2 under the activities of Work Package 1 - Fire Risk Assessment to enhance prevention (see Figure 15). It is important to emphasize that the FirEUrisk application is intended solely for demonstrating the potential of the project's products and is not to be used for operational purposes, as recorded data are not shared with the relevant authorities. This application serves as a proposed tool that could be further developed based on the specific requirements of individual wildfire risk areas.

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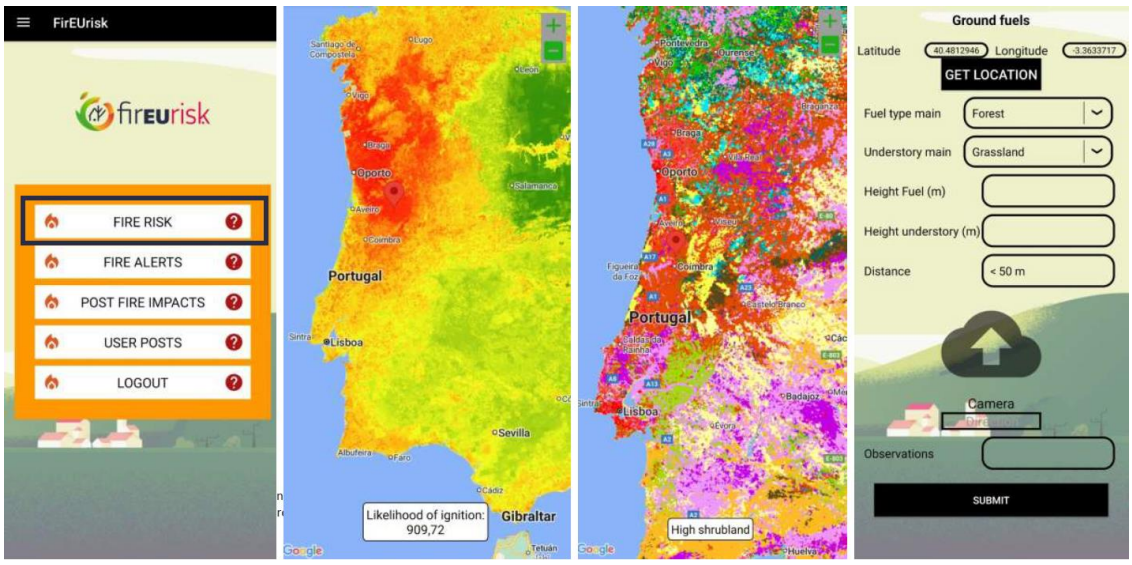


Figure 15: FirEUrisk Mobile Application

All the aforementioned exploitation tools were presented at various webinars, pilot site demonstrations, and conferences, contingent upon their development status at the time of each event. These tools are currently available for direct access via the FirEUrisk Website (see Figure 16). Furthermore, a training webinar was organized in M48, entitled "FirEUrisk Information, Data and Visualisation Tools Webinar," under Action A6.2.2 - Training Activities, in collaboration with the Work Package 4 leader, during which the exploitation tools were demonstrated (https://fireurisk.eu/event/fireurisk-information-data-and-visualisation-tools-webinar/).

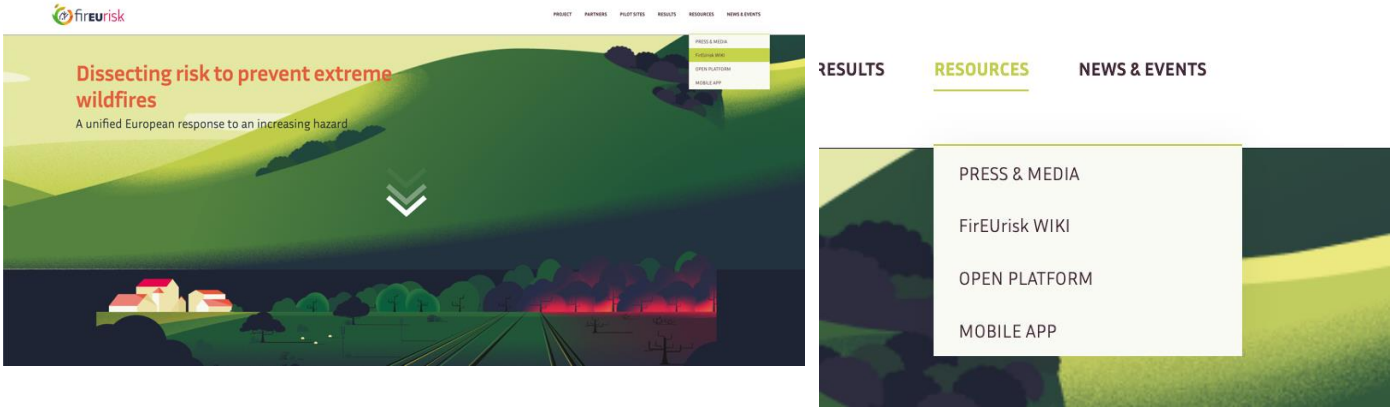


Figure 16: FirEUrisk Exploitation Tools on the Website

Discussions are currently underway between the project steering committee, led by the coordinator, and EFFIS (European Forest Fire Information System) to explore the potential for EFFIS to host the FirEUrisk website following the project's completion and to display some of the developed products, such as the Integrated Risk Index. A key challenge in this regard is the necessity for regular updates to account for the dynamic nature of fuels.

Furthermore, the ease of access and availability of the products uploaded to the Open Platform, coupled with the explanations provided in the FirEUrisk WIKI, offer researchers and stakeholders the opportunity to utilize these resources in future projects and applications. To this end, training activities were developed under Action A6.2.2 - Training Activities, featuring dedicated webinars that have been uploaded to the website along with recordings and supplementary materials. Indeed, all webinars and pilot site demonstrations organized by the project consortium can be found on the website, along with publications and deliverables for public access.

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Among the numerous documents produced by the project are Guidelines, Handbooks, Policy Briefs, and Reports of Major Fire Incidents, which are addressed to the relevant stakeholders. For example, the "D2.6 - Handbook with guidelines for firefighters to respond to extreme fires, fires in the Wildland-Urban Interface (WUI), and fires at high latitudes/altitudes," following its publication, has been translated into Portuguese, Italian, Croatian, French, Greek, and Romanian, with the contribution of local first responders for each language version.

Based on the project's outcomes and products, it can be reasonably assumed that FirEUrisk will continue to contribute significantly to the crucial task of preventing wildfires and mitigating their impacts.

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6 Conclusions

In conclusion, the FirEUrisk project successfully executed its Dissemination Plan (D6.11), effectively promoting its outcomes to key stakeholders and media through targeted activities, including those integrated within Work Package 6 and the Pilot Site demonstrations.

The active engagement and expert contributions of the EUAB, SciF, and FRO members significantly bolstered the project's success. Over the past two years, the consortium has enriched the wildfire risk management scientific community with a substantial body of knowledge through numerous publications, presentations, and collaborations.

Furthermore, the strategic implementation of the Exploitation Plan in the later stages of the project, marked by the launch of the platform, Viewer, WIKI, and the FirEUrisk mobile application, provides tangible tools for enhanced prevention and multi-level integration. These collective efforts underscore the project's significant contribution to advancing wildfire risk management practices and knowledge.

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7 Annex A: Description of Stakeholders

The Annex A content is directly taken from the GA -Annex 1 - Description Of Action (part B), where on page 34, a preliminary analyses is provided on the Stakeholders identification during the proposal phase. Briefly, the information is summarised as follows:

"FirEURisk will dedicate a large effort to co-develop concepts, integrate methods and implement actions with stakeholders related to wildfires, including fire managers, forest owners, farmers, livestock breeders, paper industry, insurance companies, NGOs and NGOs and policymakers. Table 3 below includes a description of the main stakeholder target groups included in the project".

Table 3: Main stakeholder target group for FirEURisk during proposal phase

Target Group	*Examples (sub-categories)*	*Relevance/motivation for FirEURisk*
Scientific community	Broad Scientific community in diverse fields linked to the proposal, including other related EU proposals.	Experts in different complementary fields that can provide their insights and knowledge, and foster international collaborations
First responders	Civil protection, firefighters, forest agents, police, military, pilots	First-hand experience, training, validation.
Landowners/ managers	Private and public landowners, forest managers, land tenants, local authorities	Scientific-based assessment on the effects and costs of different management and policy options, on ecological vulnerability, on interactions between fuel hazard and forest management
Policy- and regulation-makers	Local/Regional, National or EU/International levels	Authorities at various levels of action have direct influence on regulations over land use, planning, environmental and civil protection, and economic activities. Impact at these four levels is sought
Industrial stakeholders	Pulp and paper, communication and power, furniture, house construction, service providers, tourism, insurance, equipment developers	Scientific-based assessment of the economic impacts of fires, support in infrastructure vulnerability assessment, look for opportunities to develop new products and services to create new jobs.
Civil society organisations	Professional bodies, scouts, media, foundations, training centres, charities, NGOs	Provide public attitudes and perceptions data. Channel policy, prevention and preparedness project outputs. Identify and analyse 'good practices' in ET countries
Risk prevention Communities	Local communities affected by fires, protection organisations, local volunteer units	Test the methodological framework for communities' vulnerability and coping capacity assessment, strengthen adaptive capacities and overall resilience at the WUI level
General public	Urban and rural communities, teachers and local leaders	Participate in citizen-science tasks

The FirEURisk consortium already includes end-users, Third Parties and a wide group of other stakeholders to extend the operational and field knowledge, experience and expertise of the consortium members. Some of the outstanding end-users and stakeholders are:

1. **International and European centres** (EFFIS, IUFRO),
2. **National civil protection agencies** (Portugal,
3. **National Weather Services** (IPMA-PT, FMI),
4. **National and Regional fire offices** (Bouches du-Rhone Fire department, France; Generalitat Valenciana, Spain; Escola Nacional de Bombeiros, Portugal)
5. **Managers of protected areas** (Krkonoše Mountains National Park Administration, Croatia),

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6. **Decision makers** (Ministry of Environment, Waters and Forests, ROM; Split-Dalmatia County Prefect, HR; Region Autonoma de Sardinia, Italy),
7. **Research Centres** (Ramboll FR; Forest Research United Kindom; Swedish Agricultural University),
8. **Forest Owners** (Centre de la Propietat Forestal, Spain),
9. **Companies** (Vodafone, Rede Eletrica Nacional, Portugal). Some of these users will be part of the partnership as third parties. (please refer to Technical Annex, Part B, Sections 4-5 in ANNEX I- Supporting Documents)."

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8 Annex B: FirEUrisk Observatory Members

The creation of the FirEUrisk Observatory (FRO) is an instrument of the project aiming to facilitate and extend cooperation with selected representatives of the stakeholders', namely through the involvement and interaction of recognized experts, practitioners or representatives from organizations, enterprises and communities with relevant Consortium members. The FRO is managed by Domingos X. Viegas (ADAI) and Matthias Forkel (TUD) and the invited members (experts) provide additional knowledge, expertise and experience to the project regarding various Forest Fire Management aspects, covering all the areas addressed by FirEUrisk. Furthermore, FirEUrisk has gained from the Observatory members relevant guidance on the creation of impact and exploitation plans, also involving countries not represented in the consortium and has provided an independent evaluation and expert opinion on the project activities.

The FRO is currently comprised by 16 members, shown in Table 4.

Table 4: The expert members of FRO

No	Name	Institution	Reach
1	Peter Moore	Former- Food and Agriculture Organization of the United Nations –FAO-UN	AUS/WW
2	Jesus San Miguel	Joint Research Center-JRC	EU/WW
3	Alessandra Stefani	Ministry of Agriculture and Environment	Italy
4	Ulrich Cimolino	German Fire Brigades Association	Germany
5	Zisoula Ntasiou	Greek Civil Protection-CTIF	Greece
6	Patrick Worms	European Agroforestry Association	EU
7	Eric Flores	French Federation of Firefighters	France
8	Anne Marie Bastrup-Birk	European Environment Agency	EU
9	Jordi Vendrell	PAU Costa Foundation	Spain
10	Kjetil Löge	insurance company (Skogbrand Forsikringsselskap) that insures Forests in Norway	Norway
11	Gonzalo Morollon	European Network of Transmission System Operators-ENTSO	EU
12	Nuno Banza	Institute for Nature Conservation and Forests-CNF	Portugal
13	Angela Iglesias	Ministério do meio ambiente	Spain
14	David Thomas	President of Safe Communities Portugal (representing citizens)	Portugal
15	Gavriil Xanthopoulos	Hellenic Agricultural Organization "Demeter" - Institute of Mediterranean & Forest Ecosystems	Greece
16	Giovanni Fresu	Italian Fire Corps (vigilfuoco.it)	Italy

9 Annex C: FirEUrisk List of Publications

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Table 5:List of the 66 scientific publications from FirEUrisk

No	Title	Authors	Journal/Proc./Book	DOI
1	Generation and Mapping of Fuel Types for Fire Risk Assessment	Elena Aragoneses & Emilio Chuvieco	Fire	10.3390/fire4030059
2	Classification and mapping of European fuels using a hierarchical-multipurpose fuel classification system	Elena Aragoneses, Mariano García, Michele Salis, Luís M Ribeiro, Emilio Chuvieco	Earth Science System Data Discussions	10.5194/essd-2022-184
3	Live Fuel Moisture Content Mapping in the Mediterranean Basin Using Random Forests and Combining MODIS Spectral and Thermal Data	Àngel Cunill Camprubí, Pablo González-Moreno, Víctor Resco de Dios	Remote Sensing	10.3390/rs14133162
4	Integrating geospatial wildfire models to delineate landscape management zones and inform decision-making in Mediterranean areas	Marcos Rodrigues, MaríaZúñiga-Antón, Fermín Alcasena, Pere Gelabert, Cristina Vega-Garcia	Safety Science	10.1016/j.ssci.2021.105616
5	Convergence in critical fuel moisture and fire weather thresholds associated with fire activity in the pyroregions of Mediterranean Europe	Víctor Resco de Dios, Àngel Cunill Camprubí, Núria Pérez-Zanón, Juan Carlos Peña, Edurne Martínez del Castillo, Marcos Rodrigues, Yinan Yao, Marta Yebra, Cristina Vega-García, Matthias M. Boer	Science of the Total Environment	10.1016/j.scitotenv.2021.151462
6	Climate change induced declines in fuel moisture may turn currently fire-free Pyrenean mountain forests into fire-prone ecosystems	Resco de Dios, V., Hedo, J., Cunill Camprubí, À., Thapa, P., Martínez del Castillo, E., Martínez de Aragón, J., Bonet, J.A., Balaguer-Romano, R., Díaz-Sierra, R., Yebra, M., Boer, M.M.	Science of the Total Environment	10.1016/j.scitotenv.2021.149104
7	Understanding fire regimes in Europe	Galizia Luiz Felipe, Curt Thomas, Barbero Renaud, Rodrigues Marcos	International Journal of Wildland Fire	10.1071/wf21081
8	Dynamic PCA Based Statistical Monitoring of Air Pollutant Concentrations in Wildfire Scenarios.	Osswald, T., Fernandes, A.P., Miranda, A.I., Gouveia, S.	Lecture Notes in Computer Science	10.1007/978-3-031-04881-4_54
9	Smoke emissions from the extreme wildfire events in central Portugal in October 2017	Fernandes AP, Lopes D, Sorte S, Monteiro A, Gama C, Reis J, Menezes I, Osswald T, Borrego C, Almeida M, Ribeiro LM, Viegas DX and Miranda AI.	International Journal Of Wildland Fire	10.1071/wf21097

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10	Interaction between two parallel fire fronts under different wind conditions	"Carlos Ribeiro, Luís Reis, Jorge Raposo, André Rodrigues, Domingos Xavier Viegas and Jason Sharples"	International Journal of Wildland Fire	10.1071/wf21120
11	On the intermittent nature of forest fire spread – Part 2	Domingos Viegas, Jorge Raposo, Carlos Ribeiro,Luis Reis, A. Abouali, Luis Ribeiro, Carlos Viegas	International Journal of Wildland Fire	10.1071/wf21098
12	Vegetation Mapping with Random Forest Using Sentinel 2 andGLCM Texture Feature—A Case Study for LousãRegion, Portugal	Pegah Mohammadpou, Domingos Viegas and Carlos Viegas	MDPI - Remote Sensing	10.3390/rs14184585
13	A Protection for LPG Domestic Cylinders at Wildland-Urban Interface Fire	Thiago Barbosa, Luis Reis, Jorge Raposo, Domingos Viegas	Fire	10.3390/fire5030063
14	Ignition of Fuel Beds by Cigarettes: A Conceptual Model to Assess Fuel Bed Moisture Content and Wind Velocity Effect on the Ignition Time and Probability	Domingos Viegas, Ricardo Oliveira, Miguel Almeida and Donghyun Kim	FIRE	10.3390/fire4030035
15	On the non-monotonic behaviour of fire spread	Domingos Viegas, Jorge Raposo, Carlos Ribeiro, Luís Reis, Abdelrahman Abouali and Carlos Viegas	International Journal of Wildland Fire	10.1071/wf21016
16	Garden structure is critical for building survival in northern forest fires – An analysis using large Swedish wildfires	Frida Vermina Plathner, Johan Sjöström, Anders Granström	Safety science	10.1016/j.ssci.2022.105928
17	High Resolution Future Projections of Drought Characteristics in Greece Based on SPI and SPEI Indices	Nadia Politi, Diamando Vlachogiannis, Athanasios Sfetsos, Panagiotis T. Nastos, Nicolas R. Dalezios	Atmosphere	10.3390/atmos13091468
18	High resolution projections for extreme temperatures and precipitation over Greece	Nadia Politi, Diamando Vlachogiannis, Athanasios Sfetsos, Panagiotis T. Nastos	Climate Dynamics	10.1007/s00382-022-06590-w
19	"Interactions between hot and dry fuel conditions and vegetation dynamics in the 2017 fire season in Portugal"	Ermitão, T.; Gouveia, C.M.; Bastos A.; Russo, A.C.	Environmental Research Letters 17 (9), 095009	10.1088/1748-9326/ac8be4
20	Pyrogeography across the western Palaearctic: A diversity of fire regimes.	Pausas, J. G.	Global Ecology and Biogeography 31:10	10.1111/geb.13569
21	Testing drought indicators for summer burned area prediction in Italy	G. Vissio, M. Turco, A. Provenzale	Natural Hazards	10.1007/s11069-022-05714-z

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22	Investigation of Fire Weather Danger under a Changing Climate at High Resolution in Greece	Politi Nadia, Diamando Vlachogiannis, Athanasios Sfetsos, Nikolaos Gounaris, and Vassiliki Varela	Sustainability	10.3390/su15032498
23	Combining Landsat time series and GEDI data for improved characterization of fuel types and canopy metrics in wildfire simulation	Myroniuk, V., Zibtsev, S., Bogomolov, V., Goldammer, J. G., Soshenskyi, O., Levchenko, V., & Matsala, M.	Journal of Environmental Management	10.1016/j.jenvman.2023.118736
24	Mapping opportunities for the use of land management strategies to address fire risk in Europe	A.N. Neidermeier;C. Zagaria;V. Pampanoni;T.A.P. West; P.H. Verburg	Journal of Environmental Management	10.1016/j.jenvman.2023.118941
25	Progress and Limitations in the Satellite-Based Estimate of Burnt Areas	Giovanni Laneve, Marco Di Fonzo, Valerio Pampanoni and Ramon Bueno Morles	Remote Sensing	10.3390/rs16010042
26	Effects of the wildfires in August 2021 on the air quality of Athens through a numerical simulation	Tobias Osswald, Carla Gama, Ana Patrícia Fernandes, Diogo Lopes, Vassiliki Varela, Ana Isabel Miranda	International Journal of Wildland Fire	10.1071/wf22148
27	Fuel Mapping Generation Using a CNN-Based Remote Sensing Approach: A Case Study in Sardinia	Carbone, A.; Spiller, D.; Laneve, G.	Fire	10.3390/fire6100395
28	A European-scale analysis reveals the complex roles of anthropogenic and climatic factors in driving the initiation of large wildfires	Clara Ochoa, Avi Bar-Massada, Emilio Chuvieco	Science of the Total Enviroment	https://doi.org/10.1016/j.scitotenv.2024.170443
29	A phenology-driven fire danger index for northern grasslands	Johan Sjöström and Anders Granström	International Journal of Wildland Fire	10.1071/wf23013
30	Towards an integrated approach to wildfire risk assessment: when, where, what and how may the landscapes burn	Emilio Chuvieco, Domingos Viegas, et all.	Fire	10.3390/fire6050215
31	The Performance of ECMWF Ensemble Prediction System for European Extreme Fires: Portugal/Monchique in 2018	Rita Durão, Catarina Alonso and Célia Gouveia	Atmosphere	10.3390/atmos13081239
32	Predictive Model for Bark Beetle Outbreaks in European Forests	Ángel Fernández-Carrillo, Antonio Franco-Nieto, María Julia Yagüe-Ballester, and Marta Gómez-Giménez	Forests	10.3390/f15071114

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33	Disturbance ecology in human societies	Juli G. Pausas, Alexandro B. Leverkus	People and Nature	10.1002/pan3.10471
34	Global plant responses to intensified fire regimes	Roger Grau-Andrés, Bruno Moreira, Juli G. Pausas	Global Ecology and Biogeography	10.1111/geb.13858
35	A geographically flexible approach for mapping the Wildland-Urban Interface integrating fire activity data	Idit Tikotzki, Avi Bar-Massada, Noam Levin	Frontiers in Environmental Science	10.3389/fenvs.2023.1231490
36	The wildland – urban interface in Europe: Spatial patterns and associations with socioeconomic and demographic variables	Avi Bar-Massada, Fermin Alcasena, Franz Schug, Volker C. Radeloff	Landscape and Urban Planning	10.1016/j.landurbplan.2023.104759
37	Examining the Transferability of Remote-Sensing-Based Models of Live Fuel Moisture Content for Predicting Wildfire Characteristics	Edna Guk, Avi Bar-Massada, Marta Yebra, Gianluca Scortechini, Noam Levin	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	10.1109/jstars.2024.3445138
38	A Comparative Analysis of Two Major Approaches for Mapping the Wildland-Urban Interface: A Case Study in California	Avi Bar-Massada	Land	10.3390/land10070679
39	The fire weather in Europe: large-scale trends towards higher danger	Jessica Hetzer, Matthew Forrest, Jaime Ribalaygua, Carlos Prado-López, Thomas Hickler	Environmental Research Letters	10.1088/1748-9326/ad5b09
40	Modelling sorption processes of 10-h dead Pinus pinaster branches	Sérgio Lopes, Sandra Santos, Nuno Rodrigues, Paulo Pinho, Domingos Xavier Viegas	International Journal of Wildland Fire	10.1071/wf22127
41	Modelling the daily probability of lightning-caused ignition in the Iberian Peninsula	Marcos Rodrigues, Adrián Jiménez-Ruano, Pere Joan Gelabert, Víctor Resco de Dios, Luis Torres, Jaime Ribalaygua, Cristina Vega-García	International Journal of Wildland Fire	10.1071/wf22123
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43	Perception of wildfire behaviour potential among Swedish incident commanders, and their fire suppression tactics revealed through tabletop exercises	Anders Granström, Johan Sjöström, Lotta Vylund	International Journal of Wildland Fire	10.1071/wf22085
44	Estimating leaf moisture content at global scale from passive microwave	Matthias Forkel, Luisa Schmidt, Ruxandra-	Hydrol. Earth Syst. Sci	10.5194/hess-2022-121

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45	Mapping the Most Susceptible Regions to Fire in Portugal	Tiago Ermitão, Patrícia Páscoa, Isabel Trigo, Catarina Alonso, Célia Gouveia	Fire	10.3390/fire6070254
46	LPG stored at the wildland–urban interface: recent events and the effects of jet fires and BLEVE	Thiago Fernandes Barbosa, Luís Reis, Jorge Raposo, Tiago Rodrigues, Domingos Xavier Viegas	International Journal of Wildland Fire	10.1071/wf22084
47	A monthly gridded burned area database of national wildland fire data	Andrina Gincheva, Juli G. Pausas, et all.	Scientific Data	10.1038/s41597-024-03141-2
48	Correction: Global impacts of fire regimes on wildland bird diversity	Fátima Arrogante-Funes, Inmaculada Aguado, Emilio Chuvieco	Fire Ecology	10.1186/s42408-024-00269-9
49	A Fireline Displacement Model to Predict Fire Spread	Domingos X. Viegas, Carlos Ribeiro, Thiago Fernandes Barbosa, Tiago Rodrigues, Luís M. Ribeiro	Fire	10.3390/fire7040121
50	Effects of bark beetle disturbance and fuel types on fire radiative power and burn severity in the Bohemian-Saxon Switzerland	Kristina Beetz, Christopher Marrs, Annika Busse, Markéta Poděbradská, Daniel Kinalczyk, Johanna Kranz, Matthias Forkel	Forestry: An International Journal of Forest Research	10.1093/forestry/cpae024
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52	Vegetation phenology as a key driver for fire occurrence in the UK and comparable humid temperate regions	Tadas Nikonovas, Cristina Santín, Claire M. Belcher, Gareth D. Clay, Nicholas Kettridge, Thomas E. L. Smith, Stefan H. Doerr	International Journal of Wildland Fire	10.1071/wf23205
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54	A bottom-up emission estimate for the 2022 Nord Stream gas leak: derivation, simulations, and evaluation	Rostislav Kouznetsov, Risto Hänninen, Andreas Uppstu, Evgeny Kadantsev, Yalda Fatahi, Marje Prank, Dmitrii Kouznetsov, Steffen	Atmospheric Chemistry and Physics	10.5194/acp-24-4675-2024

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57	Soil smoldering in temperate forests: a neglected contributor to fire carbon emissions revealed by atmospheric mixing ratios	Lilian Vallet, Charbel Abdallah, Thomas Lauvaux, Lilian Joly, Michel Ramonet, Philippe Ciais, Morgan Lopez, Irène Xueref-Remy, Florent Mouillot	Biogeosciences	10.5194/bg-22-213-2025
58	Road fragment edges enhance wildfire incidence and intensity, while suppressing global burned area	Simon P. K. Bowring, Wei Li, Florent Mouillot, Thais M. Rosan, Philippe Ciais	Nature Communications	10.1038/s41467-024-53460-6
59	Mapping and assessment of ecological vulnerability to wildfires in Europe	Fátima Arrogante-Funes, Florent Mouillot, Bruno Moreira, Inmaculada Aguado, Emilio Chuvieco	Fire Ecology	10.1186/s42408-024-00321-8
60	Legal principles of forest fire protection on radiation hazardous lands of Ukraine in modern conditions	Olena Hulak, Dmytrii Holiaka	Law. Human. Environment	10.31548/law/2.2024.09
61	Assessment of exposures to firefighters from wildfires in heavily contaminated areas of the Chornobyl Exclusion Zone	Valery Kashparov, Serhii Kirieiev, Vasyl Yoschenko, Sviatoslav Levchuk, Dmytrii Holiaka, Marina Zhurba, Leonid Bogdan, Denys Vyshnevskyi, Deborah H. Oughton	Journal of Environmental Radioactivity	10.1016/j.jenvrad.2024.107410
62	A multi-sensor approach allows confident mapping of forest canopy fuel load and canopy bulk density to assess wildfire risk at the European scale	Elena Aragoneses, Mariano García, Hao Tang, Emilio Chuvieco	Remote Sensing of Environment	10.1016/j.rse.2024.114578
63	Assessing cross-boundary wildfire hazard, transmission, and exposure to communities in the Italy-France Maritime cooperation area	Michele Salis, Liliana Del Giudice, Fermin Alcasena-Urdiroz, Roghayeh Jahdi, Bachisio Arca, Grazia Pellizzaro, Carla Scarpa, Pierpaolo Duce	Frontiers in Forests and Global Change	10.3389/ffgc.2023.1241378

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