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

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D6.12- Dissemination and Exploitation Plan-v.2

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Executive Summary

In this document is presented the deliverable D6.12 “Dissemination and Exploitation Plan-v.2” which is the second version of the deliverable under WP6 Task 6.3- Communication and Dissemination for FirEURisk project. The FirEURisk Dissemination and Exploitation Plan (DEP) was developed and described in detail in the deliverable D6.11 “Dissemination and Exploitation Plan-v.1” setting up the strategic framework and support for the dissemination and exploitation activities that promote the project achievements, findings and results, related to a holistic and integrated strategy for risk-based fire management applicable across Europe. These activities include, but are not limited to, press-releases, scientific publications, conferences presentations and collaborations with other EU funded projects, based on R&D findings.

This second version of the DEP also provides the strategic framework followed for Y1 and Y2 of the project for the dissemination and exploitation of the activities and aims to demonstrate its implementation via presenting examples of the actual activities that took place. The communication channels used to promote and disseminate the project achievements, findings and results are described in detail in D6.7 “Communication plan- v.2” (M24), along with an analysis on their impact. For the total demonstration of the large amount of work established by the project partners on its the dissemination and exploitation the deliverables D6.2 “FirEURisk network sustainability plan-v.2”, D6.4 “Training organisation-v.1” and D6.7 “Communication plan-v.2” should be read along with this document.

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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
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
KEMEA	Center for Security Studies
REEFMC	Regional Eastern Europe Fire Monitoring Center

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1 Introduction

1.1 Purpose of the document

This document aims to provide the strategic framework and support for the dissemination and exploitation activities, that promote the project achievements, findings, and results, related to a holistic and integrated strategy for risk-based fire management applicable across Europe.

The dissemination and exploitation activities that took place in Y1 and Y2 have been based on the description and guidelines provided in version 1 of the DEP and detailed in D6.11. In this document, version 2 of the DEP, are presented briefly, the description and guidelines including updates if any and examples of the relevant dissemination activities which took place during Y1 and Y2.

These activities include, but are not limited to, participation to meetings and webinars with other EU funded projects, conferences co-organising, participation and presentations, conference proceedings publications, meetings with identified end-users and scientists, press releases and interviews, open to the public training activities demonstrating the tools developed, and strategic communication of the R&D findings via FirEUrisk social media channels.

Many activities have been conducted during Y1 and Y2, as it will be demonstrated further in the document. During Y1 and first months of Y2, the dissemination activities were mainly for introducing the project and presenting its aim, objectives and proposed methodology. After the second half of Y2 (M18) the initial results from the extensive work of WP1 and WP2 where available and disseminated.

The main dissemination and exploitation actions beyond the FirEUrisk consortium and the scientific user community (as defined in D6.11) are based on the following objectives:

1. To maximise the use of the FirEUrisk solutions by the different stakeholders, with the **overall goal to facilitate adoption of an integrated innovative Science-Based Strategy for wildfire risk management in Europe**.
2. To engage stakeholders in providing first-hand experience of the technological outcomes of the project.

To disseminate the technical knowledge generated from the consortium towards the scientific community by developing a citizen-science approach that facilitates the participation of local communities in fire prevention measures that strengthen rural economies, promote biodiversity and pursue nature-based solutions,

1.2 Structure of the Document

The Dissemination and exploitation updated plan and dissemination activities are presented in 6 sections. Section 1 is the Introduction and section 2 is analyzing the targeted audiences for dissemination along with examples of activities that took place during Y1 and Y2 if any. Section 3 is presenting the dissemination actions which took place in Y1 and Y2. The updated scientific dissemination strategy is detailed in Section 4. In section 5 is briefly outlined the exploitation plan as set up in D6.11 and finally in section 06 are the conclusions of this deliverable.

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2 Targeted Audiences for Dissemination

In D6.11 were detailed presented and explained the targeted audiences' groups for dissemination of the project progress and outcomes as some of them will become the end-users of the tool developed for applying the holistic wildfire management approach and others are influencing the wildfire management approaches and policies in national and European level. In the sections below are briefly outlined those targeted groups again, as per D6.11, and demonstrating where possible examples of the dissemination activities made for engaging those.

2.1 Stakeholders

The different stakeholders relevant to FirEUrisk as detailed in D6.11 are detailed in **Erro! A origem da referência não foi encontrada.**.The stakeholders relevant to the consortium (Annex 1) are regularly monitored and reviewed to make necessary adjustments if needed. In this way, responsiveness in terms of policy and legislation changes and/or scientific and technological innovations will be achieved.

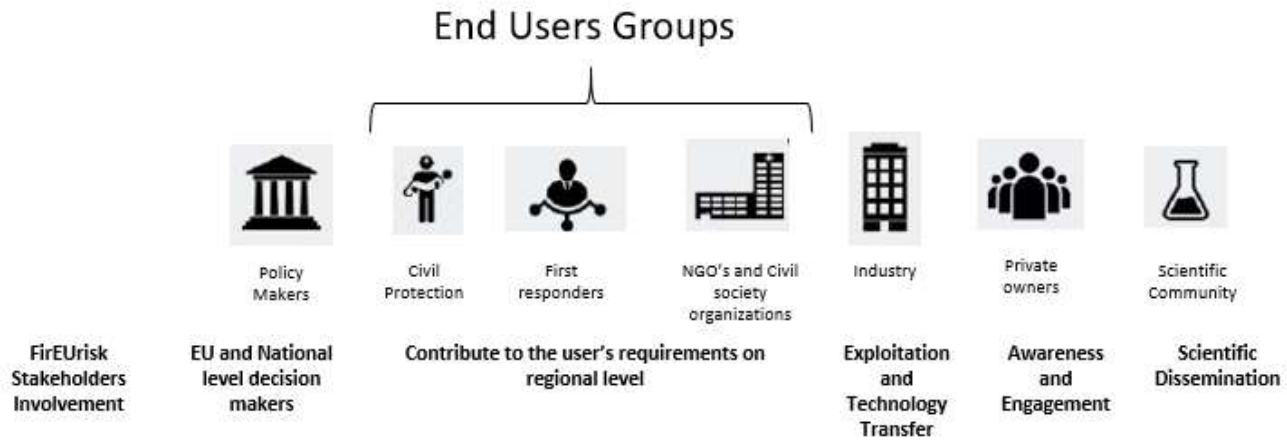


Figure 1: FirEUrisk targeted stakeholders

2.1.1 Policy Makers

Targeting the policy makers will lead to establish interactive channels between the project R&I findings and developed tools; and the policy making actors at different administration and jurisdiction level. Through this stakeholder group the FirEUrisk concept, approach and achievements could be used to shape relative policy decisions and plans. As it was detailed in D6.11 the dissemination at European policy level will need to focus on REA, DG ECHO, DG HOME, DG AGRI, EEA, Council of Europe and JRC. Furthermore, the International Association of Fire and Rescue Services (CTIF), the European Association of Power Transmission System Operators (ENTSO), and the European Agroforestry Association (EAA). Representatives of these organizations will be invited to join project's interactive events and participate in round

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tables to exchange opinions and ideas regarding the FirEURisk approach. Relation will be established with the CERIS[1] initiative of DG HOME (previously Community of Users) where debate sessions on wildfire management policies and technology solutions can be organized during Y3-Y4 of the project when the policy reviews analysis and roadmap will be under development and completed under A6.4.1, A6.4.2 and A6.4.3.

A collection of information regarding the legislative and institutional context of wildfire management in each EU member state of the consortium partners was completed in Y1 via a questionnaire was foreseen in A6.4.1 for creating an internal searchable database and the analysis including best practices to be published in an international journal. The analysis will be completed and presented by M28 of the project and delivered in D6.14 "Policies review" on M28. Formal correspondence and policy webinars are considered for sharing the relevant outputs of FirEURisk to National, EU and International policy organizations (e.g.UN, FAO, IPCC, IFAFRI, WB). For strengthen the discussion on the wildfire risk assessment strategies between the consortium and the policy makers on national level (Portugal, Spain and Greece) three (3) webinars were/are planned in Y2 as listed below:

- On March 2022 (M11), "An integrated programme of wildfire risk management. The case of Portugal", more information are given in FirEURisk website https://fireurisk.eu/event/an-integrated-program-of-wildfire-risk-management-the-case-of-portugal/
- On February 2023 (M23), "Spanish strategy of fire risk assessment reduction and adaptation. From national to local pathways in fire management", description of the event can be found on FirEURisk website https://fireurisk.eu/event/webinar-on-the-spanish-strategy-of-fire-risk-assessment-reduction-and-adaptation/
- On May 2023 (M26), "Strategies towards wildfire risk management the Greek experience. From local case to a common European approach", on FirEURisk website is given the webinar description https://fireurisk.eu/event/strategies-towards-wildfire-risk-management-the-greek-experience/

Additionally, a preliminary review of the European fire policies was presented during a Webinar organised by FirEURisk other European funded project Board (EUPB) in April 2023 (M25) under the title "Preliminary outcomes on wildfire risk management, citizen engagement and policy review in Europe", and other webinars to be organized by the consortium presenting the wildfire management policies on national level.

The project's DoA foresees an overview of the current forest fire-related legislative frameworks and instruments at the national and EU level. Related information (e.g., from DRMKC) and consortium sources will be used for this purpose, aiming to analyse the trade-offs and synergies between the current EU policies at play (Green Deal, EU forest strategy for 2030, LULUCF, RescEU etc.) and identify policy gaps or weaknesses that need to be considered by FirEURisk. In this line, the results of the project and relevant recommendations concerning wildfire management policies that may contribute to improving the national risk assessment of the EU member states will be shared with DG ECHO and competent National Authorities in context of policy webinars and publishing relative position papers. This activity is planned for the second half of the project.

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

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The project will promote to policy makers a novel wildfire management planning organized in a 3-stage approach based on risk-based prevention, integrated response and adaptation for resilience. This will be disseminated in Y3-4 through white papers for policy makers that will be produced in the second half of the project. The local partners will translate and disseminate these papers to the policy makers in their country raising relevant discussions. FirEUrisk consortium comprises several partners that have close cooperation with fire management agencies (ADAI, SafeCluster), ministries (KEMEA), international organizations (REEFMC), who all influence policy making at various levels. The boards of the project such as the FirEUrisk Observatory (FRO) are additional channels for sharing the results of the project to policy makers through its members, including world-wide fire experts and high-ranked officers.

At the IX International Conference on Forest Fire Research in Coimbra, Portugal, it was organised on the 14-18th of November 2022 (M19) a session organized by the FireLogue project (HORIZON 2020-Green Deal project) focused on showcasing significant research initiatives in Europe related to wildfire risk management. This session was attended by EU representatives and FirEUrisk along with FIRE-RES, SILVANUS and TREEADS (HORIZON 2020-Green Deal Projects) presented their primary goals and recent achievements. The session fostered a robust dialogue between projects and policymakers, emphasizing the need to collaboratively establish a roadmap for enhancing research on Wildfire Risk Management in Europe.

2.1.2 Civil Protection & First Responders

The involvement of Civil Protection services (CPs) and first responders have been guaranteed during the proposal phase letters of support. Therefore, from the beginning of the project there were established the FirEUrisk Observatory (FRO) and the End-Users Advisory Board (EUAB).

The FRO is closely involved in project development and outcomes, providing advice on the best approaches and strategies on fire management. The members of FRO are a group of experts with different backgrounds and disciplines, comprising both scientists and end-users which are highly engaged with the challenge of forest fire management at national, EU or even global scale. The FRO will reinforce the project achievements at the strategic level and in the elaboration of improved policies that may be recommended at National and even at European level. The expert members are providing guidance and an independent evaluation on the project activities and results generated as well as support other requirements, namely increasing the project impact, exploitation plans, the conceptual integration of different risk products in the FirEUrisk framework and the dissemination of project's outputs. As part of their role the members of FRO are participating in the webinars organised by FirEUrisk and will be invited to participate in the training, demonstration and pilot site activities. The expert members list of FRO is given in Annex 2.

Thus, under A6.1.3 the EUAB with 13 members is actively involved in the development and progress of the research and tools under the FirEUrisk. At least one member of EUAB is connected with a pilot side pre-defined by the project. Regular meetings have been scheduled for presenting each project WP and discussing the specific interests of those end-users. Finally, the few members of EUAB have participated into the webinars organised by the consortium of FirEUrisk and will be participating in the training and infield demonstration in the pilot sites starting from June 2023 in Barcelona (M27). In the deliverable D6.2 ''FirEUrisk Network Sustainability Plan" are detailed the actions performed by EUAB up to M24 of the project.

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2.1.3 Environmental NGO's and Civil Society Organisations

Involving, Environmental NGO's and Civil society organisations in FirEURisk is considered essential for two reasons; (1) to ensure that the international community operating in natural, and climate driven disasters are aware of FirEurisk solutions, and (2) because we are promoting and facilitating the adoption of the project outcomes in civil society organisations. Therefore, it has started the engagement of these organisations since the beginning of the project by their participation into the FRO board and inviting their representatives into, meetings for throughout the project progress, to either participate or present in relevant webinars, round-table discussions, and pilot side demonstrations, for providing though early feedbacks and information about their internal procedures and emergency related processes well in advance.

The FirEURisk outcomes, mainly during Y3-Y4, will be representing a significant advancement to European local communities that are particularly affected by forest fires. The project achievements will be demonstrated in the pilot sites and demonstration areas starting from June 2023, (M27) of the project where the local civil society organisations and NGO's will be invited to participate depending on the target group of each activity.

2.1.4 Industries and private owners

The main goal of targeting industries and private owners will be to promote uptake and commercialisation of the final developments by the project. The FirEURisk project promotes innovation across many disciplines. The integration of data and the accessibility through multiple types of devices and services will target paper, timber, tourism, bioenergy and private owners in the final phases of the project life cycle.

In Y1 and Y2 have been engaged to the project a group the forest land private owners and they are members of the EUAB. Others in industries as noted above and based on the pilot side locations will be contacted towards the end of Y3 when the consortium would be in a position to present the holistic approach and its application via the mobile app in a manner that is applicable and easier to explicate.

2.1.5 Scientific Community

The Scientific Community is recognised as an important external partner of the project. The communication and collaboration with other scientists in the wildfire regime in both EU and internationally are firstly established by creating the Scientific Forum (SciF) composed by worldwide scientists (D6.1-FirEURisk network establishment and register, and D6.2-FirEURisk network sustainability plan v.1.), second by the collaborations and synergies with other EU funded projects under EUP (D6.2-FirEURisk network sustainability plan v.1) but also via the consortium networks, and finally through participation in conferences, and scientific publications.

The high-level competences across multiple sectors in the consortium, including Meteorology, Physics; different ICT branches (Cloud computing, Big Data, Semantic data, Programming, Data Processing, Algorithms, Data Visualization, Usability and Human to Machine Interfaces), Global Navigation Satellite Systems including Copernicus based systems, Earth Observations and Radar Technologies, has offered the opportunities of participating into several meetings, webinars, and conferences. Examples of the dissemination activities that took place during Y1 and Y2 are given in section 3 below.

As per D6.11 a dedicated dissemination strategy has been outlined for the Scientific Community, the continuation for this is dinned essential therefore are presented both examples of its implementation in Y1 and Y2 and an update of the

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strategy for Y3 and Y4. In section 3 below are presented the main but not exclusive targeted conferences, workshops, and scientific publications being targeted as the lists are continuous under development.

2.2 Social Media Agencies

Social media professionals and agencies play an important role in wildfire management given their capacity to deal with the public, disseminating news, information, and opinions on scientific activities and on fire management processes and events, at local, national and international scales. The version 2 of the communication plan presented in D6.7 (submitted in M24) is detailing all the activities and efforts made for establishing sustainable networks in the social media for promoting FirEUrisk and its outcomes.

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3 Dissemination Activities Y1-Y2

During Y1 and Y2 dissemination activities where focused on promoting FirEURisk project and its innovative approach for a holistic integrated wildfire management. Additionally, in the second half of Y2 (M18) preliminary results from WP2 and WP3 where available for dissemination. In the sections below are presented these dissemination activities.

3.1 Meetings & Webinars organised by FirEURisk

The partners of FirEURisk have been organising meetings and webinars for presenting the project, promoting discussions with stakeholders and presenting the preliminary outcomes. Below are listed these events, Figure 2, and more details can be found in FirEURisk website https://fireurisk.eu/events/ :

- September 2021: Webinar "Future fire scenarios and biodiversity"
- December 2021: Webinar "Major Fires events of 2021 in the Mediterranean Basin"
- March 2022: Webinar "An Integrated Program of Wildfire Risk Management – The Case of Portugal"
- October 2022: FirEURisk symposium "Forest Fires in Central Europe – Preparing for a New Reality" in Dresden, Germany
- February 2023: Webinar "Spanish strategy of fire risk assessment reduction and adaptation. From national to local pathways in fire management"
- February 2023: Training event "The FirEURisk fuel classification system and the European fuel map"
- February 2023: Training event "Mapping the Wildland Urban Interface (WUI)"



Figure 2: Examples of dissemination activities during Y1 and Y2

3.2 Collaborations with other EU funded projects

As it was previously noted the collaboration with other EU funded projects under the research scope of wildfires management it is very important for the project progress and dissemination. Thus, as foreseen by the project GA the EUPB is establishing the connections and communication with these projects to ensure linking by creating a network with the ongoing EU-funded R&D projects related to the research topics of FirEURisk.

It is important to note the collaboration establishment with FIRELOGUE (HORIZON 2020-Green Deal Call) in M10. FIRELOGUE consortium includes researchers and civil society organisations, which have the experience and knowledge

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on all aspects of WFRM. Recognising the important role of FIRELOGUE in networking with other EU funded projects and participating in its activities, a close collaboration was established between the two projects, FirEUrisk and FIRELOGUE, and FirEUrisk is participating in the relevant meeting and joint actions, as well as promoting events via each project communication channels. Further details of this collaboration are given in D6.2-FirEUrisk network sustainability plan-v.1.

Below are listed these activities that were organised and/or participated until April 2023 (M24):

- December 2021: Hybrid event "CERIDES Disaster Prevention Month"
- December 2021: Attending the H2020 FIRELOGUE meeting.
- December 2021: Meeting participation and presentation, "Cyprus Mapping Meeting-NEMAUSUS-DG ECHO"
- March 2022: Joint webinar by FirEUrisk and RESPOND-A projects called "Fire and Crisis Management".
- April 2022: Participation in the WFRM Clustering event, which brought together 8 European projects (SILVANUS, FIRE-RES, TREEATS, FIRELOGUE, FirEUrisk, SAFERS, FIRElinks, FIRE-IN).
- May 2022: FIRELOGUE coordinated campaign:" International Firefighters' Day".
- July 2022: FIRELOGUE coordinated campaign: "Presentation of all the projects in the EUFireProjectsUnited cluster".
- October 2022: FIRELOGUE coordinated campaign: "International Day for Disaster Risk Reduction".
- November 2022: FIRELOGUE coordinated campaign: FirEUrisk has also contributed to a common video to introduce the projects in the EUFireProjectsUnited cluster. The FirEUrisk project coordinator, Professor Domingos Viegas, recorded a short video to explain the project and its contribution to the cluster. https://www.youtube.com/watch?v=VivY3NTzuyo&ab_channel=Firelogueeu
- December 2022: FirEUrisk is included in the Newsletter prepared and released by FIRELOGUE. https://admin.firelogue.eu/assets/9fecd769-3aba-4323-b688-efd067d32439.pdf
- January 2023: Presentation for Joint Dissemination Workshop under EUFireProjectsUnited initiative, "Developing a holistic, risk-wise strategy for European wildfire management".
- March 2023: Joint Webinar by FirEUrisk, LIFE Resilient Forests (UPV) and VESPRA (GMT): "Perspectives on landscape management to reduce wildfire risk".



Figure 3: Examples of joint webinars between FirEUrisk and other EU funded projects organised by EUPB

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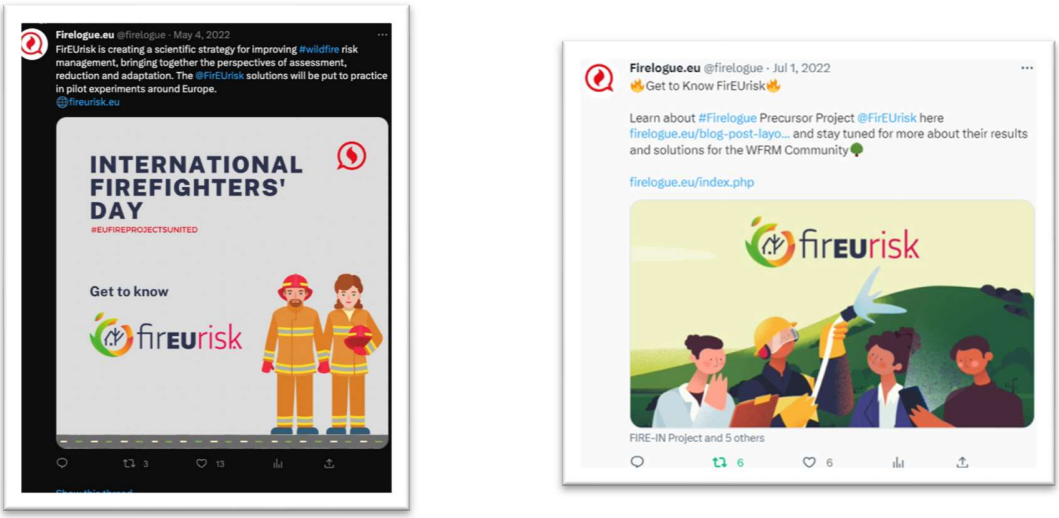


Figure 4: FirEUrisk participating into FIRELOGUE campaigns

Further dissemination actions have been performed by the consortium and listed below:

- January 2022, AFAN Workshop in Italy.
- September 2022, Split Researchers Night 2022,Split, Croatia. Presentation and Poster.
- September 2022, Young Researchers Night 2022, Nicosia, Cyprus.
- November 2022, Master course of European projects in Montepellier, France
- November 2022, Webinar, "Wildfires in Europe", organised by the COST academy specifically for COST Action Leaders.
- February 2023, Thematic Seminar-Adaptation to climate change in risk management-focus on forest fires.
- February 2023, Mediterranean Forests Forum-Mediterranean Forest management under the threat of climate change, organised by Cyprus Forest Department and Cyprus Ministry of Agriculture.

3.3 Conferences

The partners have attended and presented FirEUrisk in conferences during Y1 and Y2, either online or physical presence. The list of the conferences is presented below:

- February 2022, 2nd International Conference on Envirorisks 2022, Sofia, Bulgaria.
- May 2022, Aerial Firefighting Conference, Nimes, France. The conference attended innovation industries, end-users, policy makers and researchers.
- May 2022, EGU General Assembly 2022, FirEUrisk project was presented.
- June 2022, TERRAenVISION 2022- Nature-based solutions to facilitate the transitions for living within the planetary boundaries, Utrecht, The Netherlands. The conference attracted audience such as, policy makers, researchers, land managers and end-users.
- September 2022, 9th International Conference on Civil Protection and New technologies- SafeThessaloniki 2022. In the conference were participated researchers, technology representatives and end-users.

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- November 2022, IX International Conference in Forest Fires Research, Coimbra. The FirEUrisk project was co-organiser of the conference, along with FIRELOGUE, with a number of presentations in the schedule on the preliminary research outcomes.
- November 2022, UK wildfire conference in Belfast, UK.
- November 2022, Nicosia Risk Forum 2023, Larnaka, Cyprus. The conference attended end-users, policy makers, researchers and technology and innovation industries.
- March 2023, Conference on Remote Sensing of Wildfires, Spanish Academy of Science, Spain. The conference was attended mainly by researchers.

3.4 Publications

Up to M18 there are 58 publications made by the consortium in various scientific sources, peer-reviewed publications journals, conference proceedings and books contributions. These are currently listed in SyGMa. From M18 up to M24 the partners have proceed to additional scientific publications following the project progress and research outcomes.

As noted in Table 2 of Section 4.1 for the scientific dissemination were targeted high-impact scientific journals for peer-reviewed publications. Even though the preliminary outcoming during Y1 and Y2, the following scientific journals have published the outstanding research performed by the consortium.

- Natural Hazards- Impact Factor 3.158
- International Journal of Wildland Fire- Impact Factor 3.398

Further examples of the scientific journals were published scientific papers of the project consortium are:

- Forestry Ideas- Impact Factor not available
- Ukrainian journal of forest and wood science- Impact Factor not available
- Journal of Environmental Radioactivity – Impact Factor 2.655
- MDPI FIRE – Impact Factor 2.726
- MDPI Atmosphere- Impact Factor 3.110
- MDPI Land- Impact Factor 3.905
- Climate Dynamics- Impact Factor 4.901
- MDPI- Remote sensing – Impact Factor 5.349
- Safety Science- Impact Factor 6.392
- Agricultural and Forest Meteorology – Impact Factor 6.424
- Environmental Research- Impact Factor 6.947
- Landscape and Urban Planning- Impact Factor 8.119
- Journal of Environmental Management – Impact Factor 8.91
- Science of The Total Environment- Impact Factor 10.754
- Earth System Science Data- Impact Factor 11.815

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3.5 E-Newsletter & Blog Page

In the completion of Y1 a newsletter on the progress of the project was initially distributed to the consortium via an email and afterwards uploaded on the website, https://fireurisk.eu/newsletter-01/ . An updated version it is currently prepared to be published by M27 including the main project achievements for Y2.

A dedicated blog page has been created on the website, https://fireurisk.eu/blog/, where articles focused on the project and latest news are published, see Figure 5.

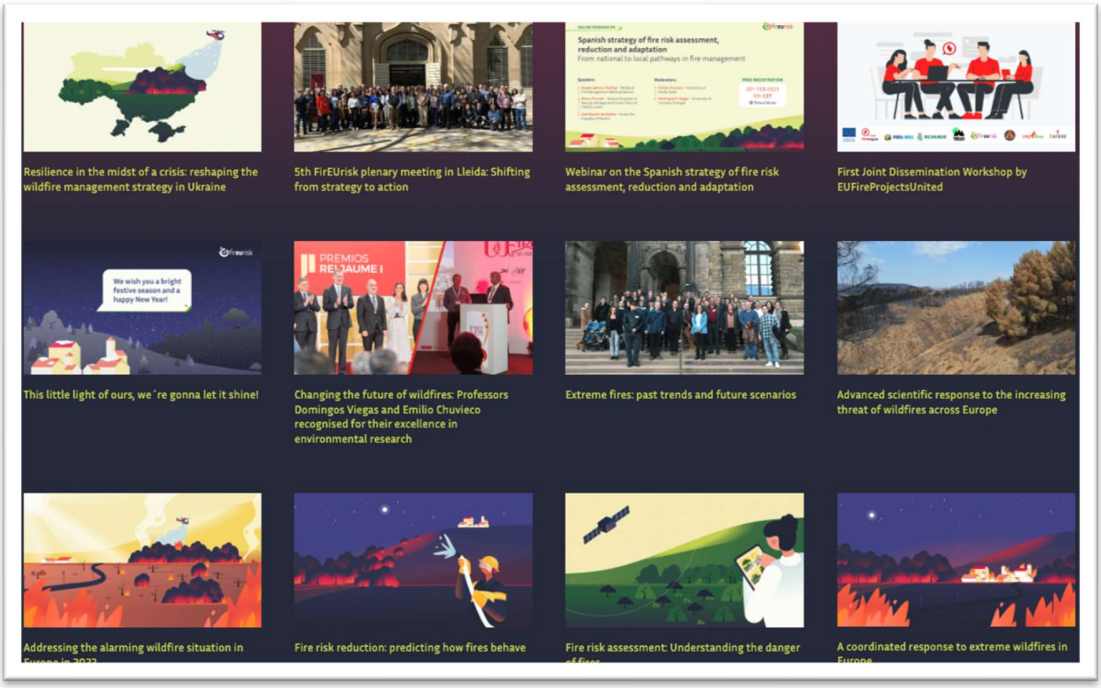


Figure 5: The blog posts page on FirEUrisk website

3.6 Website and social media

The FirEUrisk website is continuously managed and updated by the communication manager for uploading all the upcoming events organised by FirEUrisk partners and afterwards updating the events with recordings of the webinars/meetings if possible. https://fireurisk.eu/events/

A detailed analysis of the performance and impact of the project social media is given in D6.7, demonstrating the increased number of followers and views meeting and overtaking the project KPIs. Briefly, as the analysis is showing by M22 @FirEUrisk Twitter account (https://twitter.com/FirEUrisk) had gained more than 2.900 followers, and on LinkedIn, until M23 of the project, FirEUrisk counted with nearly 450 followers. Particularly, the analysis has shown that the activity on social media has helped raising awareness regarding wildfires and risk management amongst various stakeholders, including citizens, policymakers and researchers.

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3.7 Press activities

As noted in D6.7 a journalist database is created for distributing the press releases to media outlets across Europe for increasing the project impact to the public and stakeholders. Additionally, a press kit was developed and published on the project website for providing information about the project to journalists and media. The press kit can be found on the website at https://fireurisk.eu/resources/, Figure 6.

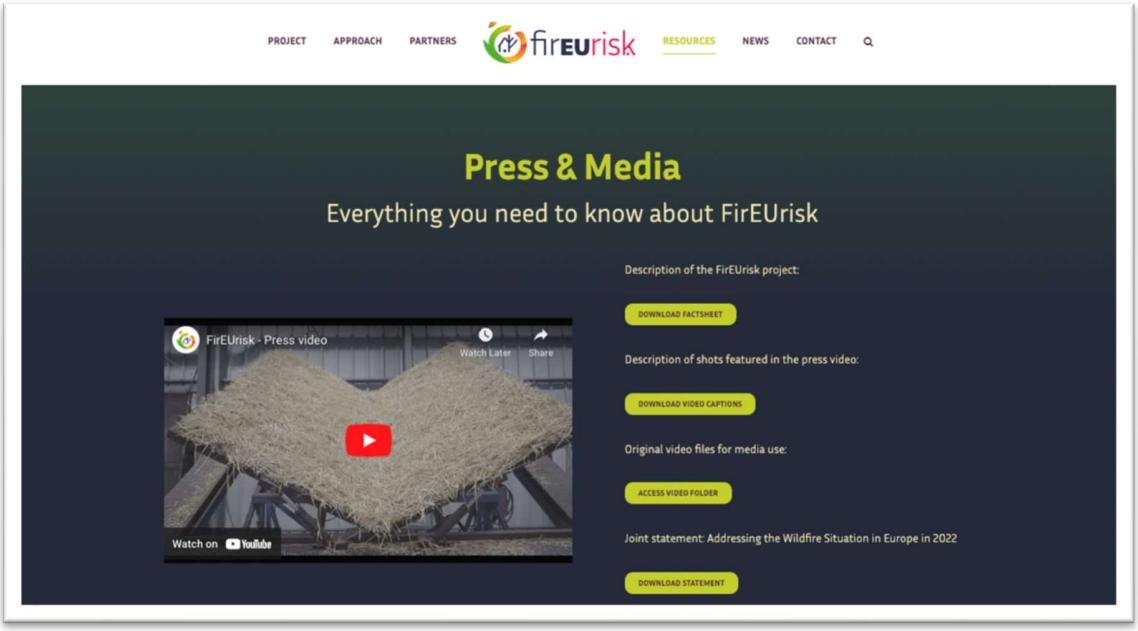


Figure 6: Press Kit on FirEURisk website

Furthermore, press releases about the project were sent to European journalists. The first one, in English, announced the project's official start and was shared with the project partners' press offices. A second press release, published in M17, addressed the alarming wildfire situation in the summer of 2022 and FirEURisk's goal to enhance fire management strategies in Europe. It was translated into Spanish, Portuguese, and German. As a result, over 120 media mention of FirEURisk in at least 7 languages were recorded. The project's topic has attracted significant media interest, as wildfire-related news stories are frequently published, especially during the summer season.

Finally, following some partners contribution on the wildfire risk management research were conducted interviews were the FirEURisk holistic integrated approach was referred to. The project coordinator ADAI and project technical director UAH among other partners have been asked by local and international media, to comment on the wildfires incidents every fire season. Examples of those are listed in the website, https://fireurisk.eu/pressbook/ with links to each article, Figure 7.

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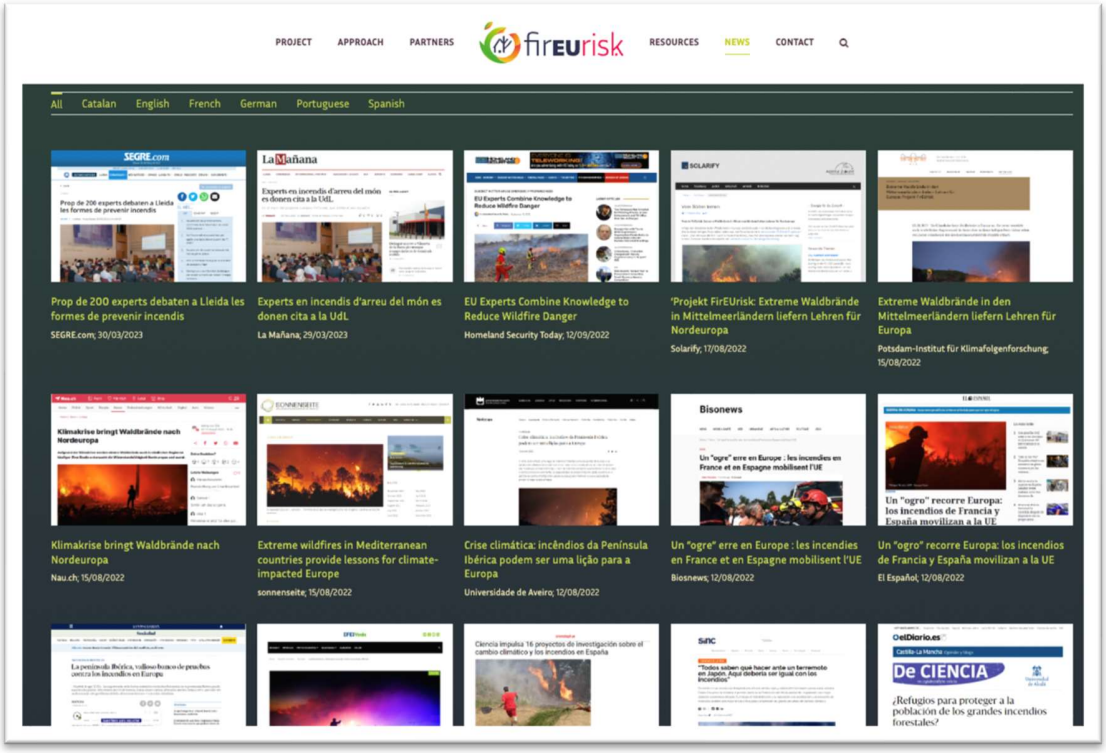


Figure 7: Press activities on FirEUrisk website

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4 Scientific Dissemination

4.1 Dissemination Strategy

The implementation of the scientific dissemination strategy plan will continue to be implemented as structured in D6.11 for promoting the project and its achievements by the partners, to the large European and International R&D community, public associations and other projects.

The objectives for the scientific dissemination as defined in D6.11 are:

- To raise and foster awareness of the project concept and objectives, and initial results, among public association and the R&D community.
- To establish synergies with related projects, in particular within the H2020 programme and Green Deal in order to promote a coherent overall approach and develop a consistent technological framework.

FirEURisk consortium will continue through Y3 and Y4 the production of high-impact contributions which will be disseminated through peer-reviewed publications, presentations demonstrations, panels, round-table discussions, webinars, conferences and other events. FirEURisk has set out the following measurable objectives for dissemination activities:

- Publication of scientific articles at reputed conferences and journals.
- Workshops organization and participation to promote the project vision and work done within the FirEURisk research activities, as well as to promote the interaction with other project activities.
- Delivery of presentations promoting the project vision, concept and initial results.
- Demonstration of project related solutions at events/case studies.
- Additional core skills for technology development within the project academic partner's curriculums, where PhD and MSc theses on specific topics related to FirEURisk are performed.

An updated list of targeted journal publications is given in Table 2, along with a list of relevant conferences in Table 3. The communication and collaboration with other EU funded projects will continue under the EUPB, as detailed in D6.2.

Table 2: Updated list with relevant journals

Title	Website	Publisher	Impact Factor
IEEE Transactions on Big Data (IEEE TBD)	https://www.computer.org/csdl/journal/bd	IEEE	Not Yet Available
Information Systems (IS)	https://www.journals.elsevier.com/information-systems	Elsevier	2.309
IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE)	https://www.computer.org/web/tkde	IEEE	2.476
Fire Ecology	https://fireecology.springeropen.com/	Springer Open	2.927

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Natural Hazards	https://www.springer.com/journal/11069	Springer	3.102
International Journal of Wildland Fire	https://www.publish.csiro.au/wf	CSIRO	3.20
Big Data Research	https://www.journals.elsevier.com/big-data-research	Elsevier	3.578
International Journal of Disaster Risk Reduction	https://www.journals.elsevier.com/international-journal-of-disaster-risk-reduction	Elsevier	4.320
Agricultural and Forest Meteorology	https://www.sciencedirect.com/journal/agricultural-and-forest-meteorology	Science Direct	6.424
Safety Science	https://www.sciencedirect.com/journal/safety-science	Science Direct	6.392
Expert Systems with Applications (ESWA)	https://www.journals.elsevier.com/expert-systems-with-applications	Elsevier	6.954
Journal of Environmental Management	https://www.sciencedirect.com/journal/journal-of-environmental-management	Science Direct	8.91
Science of The Total Environment	https://www.sciencedirect.com/journal/science-of-the-total-environment	Science Direct	10.754
Earth System Science Data	https://www.earth-system-science-data.net/	Copernicus	11.815

Table 3: List of relevant Conferences for 2023 and 2024

Conference Title	Date	Link
8th International Wildland Conference	May 16-19, 2023	https://civil-protection-knowledge-network.europa.eu/events/8th-international-wildland-fire-conference
SpliTech 2023- International Conference on Smart and Sustainably Technologies	June 20-23, 2023	https://2023.splitech.org/home
SpliTech 2023- International Conference on Smart and Sustainably Technologies	June 20-23, 2023	https://2023.splitech.org/home
ICWFMP 2023: International Conference on Wildland Fire Management and Prevention	September 18-19, 2023	https://waset.org/wildland-fire-management-and-prevention-conference-in-september-2023-in-toronto
ICFFM 2023: International Conference on Forest Fire Management	October 02-03, 2023	https://waset.org/forest-fire-management-conference-in-october-2023-in-dubrovnik
Aerial Fire Fighting Conference, 2023	October 26, 2023	https://www.aerialfirefighting.ca/
10th International Fire Ecology and Management Congress	December 04-08, 2023	https://fireecology.org/

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2023 IEEE International Conference on Big Data (BigData)	December 15-18, 2023	https://conferences.ieee.org/conferences_events/conferences/conferencedetails/59044
Wildland-Urban Interface Conference 2024 Peppermill Resort Reno, NV	March 26-28, 2024	https://www.iafc.org/events/event/2024/03/26/default-calendar/wildland-urban-interface-conference-2024
7th International Fire Behaviour and Fuel Conference Tralee, Ireland. Idaho, USA. Canberra, Australia	April 15-19, 2024	https://firebehaviorandfuelsconference.com/
INTERPRAEVENT 2024 - Natural Hazards in a changing climate Vienna, Austria	June 10-13, 2024	https://interpraevent2024.at/
IUFRO World Congress 2024 - Stockholm, Sweden	October 09-11, 2024	https://myevent.upc.edu/97991/detail/4th-european-symposium-on-fire-safety-science-esfss-2024-barcelona-from-9th-to-11th-october-2024.html
UK Wildfire Conference	November 12-13,2024	https://wildfire2024.co.uk/

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5 Exploitation Plan

The exploitation plan as set up in D6.11, will be mostly applicable during Y3 and Y4 of the project when the outcomes on applying the under-development science-based holistic, integrated, innovative, strategy for wildfire risk management in Europe will be available. The use of the mobile app for fire risk information, publishing the handbooks and guidelines, the extreme future fire scenarios and data, and publishing the open platform of models, data and knowledge gained throughout the project (deliverable D4.8-Open platform, under WP4) will activate and implement the exploitation plan established in D6.11. It is important to note the possibility of adopting some adjustments on the exploitation plan developed and detailed in D6.11 during Y4 when the currently under-development project findings will be finalised and a more clear approach to the exploitation will be explored by the consortium. The relevant updates to the exploitation plan would be detailed in version 3 of the deliverable, D6.13. Mainly for capitalising the project achievements the consortium aims to integrate its findings and data sets with existing external platforms, such us but not only, EFFIS, European Commission Disaster Risk Management Knowledge Centre, and Copernicus EMS.

In this stage Y2, of the project the mobile app is a testing period, the handbook, guidelines and other critical outcomes are under research. Finally, available is the internal platform with data sets and models for use by the consortium (D4.3. Internal cooperative platform of models, data and knowledge). Therefore, the analysis of the exploitation plan remains the same as detailed in D6.11 and presented in the sections below.

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6 Conclusions

During Y1 and Y2 the Dissemination plan as detailed in D6.11 was implemented by the consortium by organising dissemination activities for promoting FirEURisk project to the targeted stakeholder groups. Organising the dissemination activities and their communication have been under the scope of several partners and further detailed in the deliverables, D6.2 “FirEURisk network sustainability plan-v.2”, D6.4 “Training organisation-v.1” and D6.7 “Communication plan-v.2”.

The close involvement of stakeholders in the project s through EUAB and FRO has been essential for the project progress but also for promoting FirEURisk. The engagement of these target groups will continue throughout the duration of the project for training them and testing the under-development tools and other findings.

In the first two years of the project the consortium has achieved to contribute to the scientific community of wildfires risk management a unique source of knowledge for research and development via its large number of publications, conferences presentations and collaborations with other EU funded projects.

The exploitation plan as detailed in D6.11 would be implemented mainly towards the end of Y3 and during Y4 of the project with the creation and opening of the open platform and integration of data sets into external existing platforms, however there is the possibility of having the performed some adjustments and updates to it depending on the actual final results.

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7 References

[1] GA_101003890 - Annex 1 - Description Of Action (part B) – page 36, section 2.2.2.4 Exploitation strategy

[2] EC JRC Ispra Disaster Risk Management Unit and its Risk Data Hub [online] Available at: < https://drmkc.jrc.ec.europa.eu/ >

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8 Annex A: Description of Stakeholders

The Annex 1 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. In a nutshell 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 6 (Table 4) includes a description of the main stakeholder target groups included in the project. "

Table 4: 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

FirEURisk consortium includes already 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** (PT),
3. **National Weather Services** (IPMA-PT, FMI),

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4. **National and Regional fire offices** (Bouches du-Rhone Fire department, FR; Generalitat Valenciana, SP; Escola Nacional de Bombeiros, P)
5. **Managers of protected areas** (Krkonoše Mountains National Park Administration, CR),
6. **Decision makers** (Ministry of Environment, Waters and Forests, ROM; Split-Dalmatia County Prefect, HR; Region Autonoma de Sardinia, IT),
7. **Research Centres** (Ramboll FR; Forest Research UK; Swedish Agricultural University),
8. **Forest Owners** (Centre de la Propietat Forestal, SP),

Companies (Vodafone, Rede Eletrica Nacional, P). 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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9 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) will provide additional knowledge, expertise and experience to the project regarding various Forest Fire Management aspects, covering all the areas addressed by FirEURisk. Furthermore, FirEURisk will gain from the Observatory members relevant guidance on the creation of impact and exploitation plans, also involving countries not represented in the consortium and provides an independent evaluation and expert opinion on the project activities.

The FRO is currently comprised by 16 members, shown in Table 5.

Table 5: 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

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