

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

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Executive Summary

The deliverable D6.2-FirEURisk network sustainability plan-First version is the second deliverable under the actions of WP6- Policy integration & outreach-Network & dissemination, of the FirEURisk project. Part of the successful implementation of FirEURisk objectives is the identification and sensitization of similar EU funded actions. This deliverable presents the actions that had been taken to establish and cement the relationships with other EU funded projects, academics, and stakeholders through FirEURisk boards; End-Users Advisory Board, Scientific Forum, and EU Project Boards, by reporting the dissemination activities, which took place until M24 (reporting period for D6.2) for Y1 and Y2 of FirEURisk. In the reported activities are also reported the actions under the collaboration with FIRELOGUE project (HORIZON 2020-Green Deal) and via FIRELOGUE with the other 04 Green Deal projects.

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List of Acronyms

Table 1: List of Acronyms

List of Acronyms	
EUAB	End-Users Advisory Board
SciF	Scientific Forum
EUPB	EU projects Board- Other
GA	Grant Agreement
Y1	Year 1
Y2	Year 2
WP	Work Package
EU	European Union
PS	Pilot Site
WP	Work Package
WFRM	Wildfire risk management

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1 Introduction

1.1 Purpose of the document

The purpose of this deliverable D6.2 is to present the activities which took place in Y1 and Y2 of FirEURisk for establishing and maintaining the relationship with other EU funded actions in respect to the activities of the continuously working boards, End-Users Advisory Board (EUAB), Other EU Projects (EUP) and Scientific Forum (SciF) as part of WP6. The role, the constitution, list of members, and planning activities for each board and forum were detailed and presented in D6.1-FirEURisk network establishment and register, submitted in M3. In this document are presented the updates, changes, and challenges presented for EUAB, SciF, and EUP during the period between M3 and M24.

Various dissemination activities took place in Y1 and Y2 by the consortium partners for presenting generally the project, including its objectives, aims and the approach to be followed in the form of webinars, conferences, press actions, and sharing the dissemination material of leaflets and video. In Y2, those actions were also included the first results of the analyses performed by the partners for each WPs. These dissemination actions are recorded in D6.12-Dissemination and Exploitation Plan v.2, also issued in M24.

Furthermore, until Y2 of the FirEURisk project, the under-development tools which have been shared and disseminated are; (1) the FirEURisk fuel classification system and the development of the European fuel map following that system, by the University the Alcala (UA) and (2) the procedure developed on mapping the wildland urban interface area, by the University of Haifa (HU). Both tools were presented in a separate training event under the works of A6.2.2-Training Activities which are detailed in the deliverable D6.4-Training Organisation v.1 also submitted in M24.

The sustainability of this plan is maintained by the continuous organisation of actions and is presented in each section under the Future Plans section.

1.2 Structure of the Document

The document is organised into 05 sections. Section 1 is giving the Introduction for the Deliverable. Afterward, Sections 2,3, and 4 present the updates and actions performed by the EUAB, SciF, and EUP for creating an external network with operational agents and relevant end-users as well as other EU funded projects. In these sections are also presented the challenges & outcomes, and future plans. Finally, Section 05 includes the conclusions of this deliverable.

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2 End-Users Board- EUAB

The EUAB members act as advisors to the FirEURisk project and are consulted when it is required for the development of the products as well as the inputs required for the performance of the research. The members are contributing to the work of the WPs by sharing their experience, and knowledge, replying to questionnaires, and distributing those through their network. The main focus of these two years, Y1 and Y2, was the contribution of EUAB to the development of scientific work.

2.1 List of Members

Since M3 and the submission of D6.1-FirEURisk network establishment and register, the members list for EUAB has been updated, changed, and extended. The previous representative from Krkonoše Mountains National Park Administration has been replaced. Also added several new members which are end-users from the Forest Fire Services, of different Spanish regional autonomies. The updated list of the EUAB board members as of now is presented below in Table 2: EUAB members updated list.

Table 2: EUAB members updated list.

Name	Institution	PS and Country
Vitor Reis	National Fire Service School	PS3 Portugal
David Rönnblom	Holmen Skog AB	PS1 Sweden
Teresa Baiges	Forest ownership centre	PS4 Spain
Teresa Baiges	Forest ownership centre	PS4 Spain
Nikos Stefanou	Hellenic Police Headquarters	PS5 Greece
Francisco Serna Rivero	Andalucía Forest Fire Service	PS3 Spain
Kevin del Rey Morris	Prevention Forest Fire Department of Diputació de Barcelona	PS4 Spain
Jenny Sander/ Leif Sandahl	MSB Swedish Civil Contingencies Agency	PS1 Sweden
Ángela Iglesias Rodrigo	Forest Fire Area, Ministry of Ecologic Transition	PS4 Spain
Hana Pelikánová	Krkonoše Mts Nation Park Administration	PS2 Czech Republic
Jose Antonio Navalon	Forest Fire Service at Extremadura Regional Autonomy	PS4 Spain
Jose García Fernández	Forest Fire Service at Galicia Autonomous Region	PS4 Spain

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Tzortzina Legaki	Municipality of Rafina – Pikermi	PS5 Greece
Francisco Senra Rivero	Andalucía Forest Fire Service	PS4 Spain

2.2 Planned Activities

Several activities took place after the second half of Y1 and then during Y2. The activities involved meetings with the participation of the project WP1, WP2, and WP3 leaders, the distribution of Questionnaires developed as part of the work of the WPs, and discussions on the project's progress. The list of the activities is given in Table 3.

Table 3: EUAB Planned activities in Y1 and Y2

Action	Date	Topic	Agenda
Meeting	13th January 2022	First Meeting	1. Introduction per member 2. Introduction to the project – project overview by the coordinator 3. What we expect from the EUAB 4. Example products from WP1 (WUI maps and economic burden assessment) 5. WP5 presentation
Questionnaire	During 2022 the Board members were addressed with the end-user questionnaire	End-user questionnaire WP5	-
Questionnaire	During the autumn of 2022, the board members were addressed with the land-management strategies questionnaire (LMS)	LMS questionnaire WP2	1. Information 2. WP2- Fire Risk Reduction (Safe-Cluster) 3. Update of SciF members and WPs 4. AOB
Help in the use of the Grassland fire model	2022	Advice	Some of the members were addressed in the usability and implementation of the grassland fire model.
Questionnaire	Autumn 2022	Helped in finding people for questionnaireWP2	During the autumn of 2022, two board members helped find people to answer the questionnaire on Citizen's involvement by ISIG (A2.4.2)
Meeting	23rd February 2023	Meeting With WP5	1. Updates on the project 2. Short review of the 2022 wildfire season in Europe

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			3. Schedule for the demonstration events (PS and DA) and invited to participate. 4. Questions from WP 2 on strategies, and feedback on the survey results (Safe-Cluster)

It is important to note that the contribution of EUAB members via their expertise and knowledge has been valuable in the project progress and specially in the on-progress work for the tool's development under the scope of the project.

2.3 Challenges & Outcomes

The main challenge is to organise meetings convenient to the majority of the EUAB members, however, the response so far and participation are sufficient with input given when requested.

It is important to highlight the potential of this group with its vast network of other end-users. The EUAB members and their network when needed have provided the required input to the activities of WP2 and WP5.

2.4 Future Plans

In the future planned activities for EUAB are included:

- EUAB members participation and presentations during the next FirEURisk plenary meeting (March 2023),
- To plan EUAB meetings with the participation of other WPS,
- Participation of EUAB members in Pilot Sides demonstrations.

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3 Scientific Forum- SciF

The SciF is composed of leading scientists from EU and non-EU institutions that are not members of the FirEURisk consortium and who are interested in the research performed by the FirEURisk project and would like to follow closely the project's progress.

The members of SciF are researchers who have experience in the field of wildfire policy and management and through the forum ensured a bi-directional exchange of knowledge and expert opinion on the methodologies, approaches, and under-development tools by the FirEURisk project. Additionally, the involvement of non-EU scientists could bring into discussion the approaches used outside the EU which could be considered due to the rapid change of the wildfire's behavior.

3.1 List of Member

The SciF is composed of scientists from the United States of America, Australia, Canada, Brazil, Peru, South Africa, India, Algeria, the Republic of Korea, the Republic of China, Austria, Spain, and Cyprus. Worldwide leading scientists have been invited to increase the coverage and representation of fire-related topics. All the members have signed a Non-Disclosure Agreement. The initial list of all the contributors to the Forum is presented in Deliverable D6.1 – FirEURisk network establishment and register. During Meeting 3 (M11) three new members were added and those are presented in Table 4.

Table 4: The new members of the SciF

Member	Affiliation	Country	Expertise
Julia Trouza	University of York	UK	Economic analysis of forest disturbances-wildfires
Sally Archibald	University of Witwatersrand	South Africa	Fire-grazer interactions, inter-continental savanna comparisons, the importance of land-atmosphere feedback
Natasha Ribeiro	Universidad Eduardo Mondlane	Mozambique	Forest ecology, wildfires, miombo woodlands, restoration ecology

3.2 Planned Activities

The initial plan established by the SciF Manager (UAVR) was to organise bi-monthly meetings during the first six months of the project and from there on to meet twice a year. However, the organization of the meetings is proven to be a challenge mainly due to time-zone constraints.

In total seven meetings were planned four meetings had different contexts organized from M6 (June 2021) to M13 (April 2022). As presented in Table 5 below the Meeting 2 and Meeting 4 were repeated for overcoming the time-zone challenges.

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Table 5: Meetings Organised by SciF

No of Meeting	Date	Title	Agenda
01	18 June 2021 (M3)	Meeting 1 – Kick Off	1. Knowing each other – brief introduction per member 2. Knowing the project – project overview by the coordinator 3. Knowing the Scientific Forum – who we are, our role 4. Knowing what we can do – potential contributions, organization of the SciF, meetings 5. Next steps 6. AOB
02, 03 & 04	3rd of December 2021. A meeting at 9 a.m. CET and a second one at 3 p.m. CET. And 7th December 2021 (M9)	Meeting 2	1. FirEURisk Updates 2. WP1- Fire Risk Assessment (UdL, Christina Vega) 3. The SciF members and the WPs 4. Activities for the 1st semester of 2022 5. AOB
05	21st February 2022 (M11)	Meeting 3	1. Information 2. WP2- Fire Risk Reduction (Safe-Cluster, Sébastien Lahaye) 3. Update of SciF members and WPs 4. AOB
06 & 07	28th April 2022, A meeting at 2 p.m. CET and a second one at 5 p.m. CET (M13)	Meeting 4	1. Information 2. WP3- Adaptation to Future Fire Regimes (PIK, Kristen Thonicke) 3. AOB

3.2.1 Meeting 1- Kick Off

The Scientific Forum (SciF) of the FirEURisk project had its 1st meeting online, on the 18th of June. From the FirEURisk consortium in the meeting participated the FirEURisk coordinator ADAI and the Manager of SciF UAVR.

After a brief introduction by all the participants, the FirEURisk coordinator gave an overview of the Project. The SciF Manager, UAVR explained the role of the Forum and presented its composition at that stage.

There were discussed different fire topics based on SciF members interests and experience, and the connection of those with the project's Work Packages following a presentation of the WPs. The members of SciF were asked to send topics and WPs of interest which will be considered for organising future meetings with a specific theme.

Regarding the meetings organisation proposed the following:

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- to periodically participate in on-line meetings,
- during the next six months will meet bi-monthly,
- after this initial stage meet twice a year,
- some flexibility to adjust, if needed, and
- to physically join project meetings and events.

3.2.2 Meeting 2

The SciF had its 2nd meeting on the 3rd of December at 9 a.m. CET and at 3 p.m. CET, and on the 7th of December at 6 p.m. CET. The distinct meetings had the same agenda and were needed to overcome the time zone constraints of the SciF members. From the FirEURisk project participated UAVR, the SciF Manager, and UdL, the WP1 coordinator.
After a brief update on the first 08 months of the FirEURisk's activities supported by a video, the SciF manager informed and described the other boards established in the project, namely the Observatory Board, the End-user Advisory Board, and the Other EU project Board.

Afterward, presented the leader of WP1 – Fire Risk Assessment, describing its objectives, main tasks, and main achievements. The members of the SciF actively participated in the discussion following the presentation for WP1, making questions, and contributing comments on the methodologies and approaches proposed.

The SciF members had already begun sending their interest in the main topic(s) of research and marking the most relevant Work Packages (maximum 3), this process was still ongoing, and a discussion would follow during the next meeting.

For further actions there were proposed the following:

- To have a meeting in February with WP2 and WP3 coordinators
- To have a meeting in April with WP4 and WP5 coordinators
- It was discussed the possibility to organize a SciF meeting during the IX INTERNATIONAL CONFERENCE ON FOREST FIRE RESEARCH, in Coimbra, next November (M20).

3.2.3 Meeting 3

The Scientific Forum (SciF) of the FirEURisk project had its 3rd meeting on the 21st and 22nd of February at 3 p.m. and 10 a.m. CET, respectively. The distinct meetings had the same agenda and were needed to overcome the time zone constraints of the Scientific Forum members.

On behalf of the project, present to the meeting were the Manager of the SciF-UAVR, the coordinator of the WP2- Safe Cluster, and the Project coordinator ADAI and UA.

The new members of SciF were introduced and welcomed, namely Julia Touza from the University of York, UK, Sally Archibald from the University of Witwatersrand, South Africa, and Natasha Ribeiro from the Universidade Eduardo Mondlane, Moçambique.

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Information was shared about the next plenary meeting of FirEURisk, which is going to be held in Coimbra, Portugal, between the 30th of March and the 1st of April. The SciF members were invited to participate in the open meeting session (1st of April), along with the other members of the boards and members of the project consortium.

Safe-Cluster presented the WP2 – Fire Risk Reduction, describing its objectives, main tasks, and main achievements. The members of the SciF actively participated in the discussion of this WP, making questions, and contributing with comments.

3.2.4 Meeting 4

The 4th meeting was organised on the 28th of April at 2 p.m. and 5 p.m. CET. The distinct meetings had the same agenda and were needed to overcome the time zone constraints of the SciF members.

The Manager of the SciF, UAVR and the coordinator of the WP3-Adaptation to future fire regimes, PIK, were also present. After a brief summary of the 1st FirEURisk plenary meeting (March 2022-Coimbra) from the SciF manager, PIK presented the WP3 – Adaptation to future fire regimes,- describing its objectives, main tasks, and main achievements. The members of the SciF actively participated in the discussion of this WP, with questions, and contributing with comments.

All the members had provided their interest in the main topics and the relevant WPs which are assisting the SciF manager to organise future meetings.

3.3 Challenges & Outcomes

The main challenge is the organisation of meetings at a time and day which could be convenient for most of the members of SciF.

Through the discussions from the Work Packages presentations was given productive feedback and ideas for the next steps in developing the methodologies and approaches for each research topic.

3.4 Future Plans

The next meetings are to be organised by the SciF manager for presenting WP4- and WP5- by their coordinators. Also, another round of presentations of the outputs from the research of WP1, WP2, and WP3 would be organised for updating the SciF members on the project progress and providing their comments as previously.

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4 Other EU Projects Board- EUPB

The Other EU Projects Board- EUPB, being established with the main task to ensure linking by creating a network with the ongoing EU-funded R&D projects related to the research topics of FirEURisk as described in the GA. An initial list of the targeted projects was included in the D6.1-FirEURisk network establishment and register- submitted in M6. This list is a live document which is updated regularly with the new EU-funded projects with a research focus on wildfires.

4.1 List of the ongoing projects

Table 6 below presented the updated list of ongoing projects which have been targeted by the EUP for organising Webinars. The list will be continuously updated through the duration of the project.

Table 6: List of ongoing EU projects (Updated from D6.1) [1,2]

Year	Funded by	Title	Coordinator	Duration (months)	Website
2018	LIFE	LIFE Resilient Forest	Technical University of Valencia, (ES)	66	https://www.resilientforest.eu/
2021	HORIZON 2020	FIRE-RES	Forest Science and Technology Centre of Catalonia, (ES)	48	https://fire-res.eu/about-fire-res/
2021	HORIZON 2020-Green Deal	FIRELOGUE	Frauhofer Institute for Technological Trend Analysis INT, (DE)	48	https://firelogue.eu/
2021	HORIZON 2020-Green Deal	SILVANUS-	UNIVERSITA TELEMATICA PEGASO, (IT)	40	https://www.cmcc.it/projects/silvanus-integrated-technological-and-information-platform-for-wildfire-management
2021	HORIZON 2020-Green Deal	TREEADS	RISE FIRE RESEARCH AS (FRN) (NO)	42	https://treeads-project.eu/
2021	HORIZON 2020-Green Deal	DeepCube	National Observatory of Athens (NOA) – (GR)	35	https://deepcube-h2020.eu/
2021	DG-ECHO	NEMAUSUS	Ministry of Interior, France	18	https://civil-protection-knowledge-network.europa.eu/projects/nemausus
2023	SEMEDFIRE-	HORIZON- WIDERA-2021	European University Cyprus- CERIDES, (CY)	35	Not published yet
2023	FIRE-ADAPT	Mari Sklodowska-Curie Actions (MSCA)	PAU-COSTA FOUNDATIONS, (ES)	48	http://www.fireadapt.eu/en/ (Temporary)

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4.2 Planned Activities

During Y1 of the FirEURisk project, the actions of EUPB were focused on presenting and introducing the project and its objectives. The first outputs from the WPs, specifically from WP1- Fire risk assessment to improve prevention- and WP2-Risk reduction to improve protection, were ready to be presented on Y2 (M20).

4.2.1 CERIDES Disaster Prevention Month- December 2021

The first activity of EUPB was presenting the FirEURisk project in two of the sessions for "CERIDES Disaster Prevention Month" in a 2-day hybrid event, held on the 7th and 8th of December 2021 (M9) (Figures 1 and 2). The event took place at European University Cyprus for those who attended physically. For both days the total attendance was 50 people.



Figure 1: Disaster prevention month banner [3]



Figure 2: Dissemination of the event on FirEURisk Twitter Account

The session title for the 1st day was "Regional Collaboration in Disaster Prevention: the cases of Israel & Cyprus", and it included presentations from projects and research in Cyprus and Israel, as shown in Figure 3 below, including the Horizon 2020 funded project Respond-A and Pyrolife also funded by the Marie-Curie Action. The targeted audience was stakeholders, first responders, and academics from the eastern Mediterranean region. It should be noted that there were attending academics, Fire Officers, and Civil Defence Officers from Cyprus in physical presence, and online from Cyprus, Greece, and Israel.

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The second day was titled "Lesson learned from past disasters, perspectives from Australia" where there were presented past fires, lessons learned, and research for preventing wildfires in Australia and the H2020 projects as in the 1st Day, among others, see Figure 4 for the agenda. The audiences were mainly academics from Cyprus, Greece, Australia, and Israel including a small number of policymakers including the Minister of Foreign Affairs of the Republic of Cyprus and the High Commissioner of Australia in the Republic of Cyprus.

Time Period	Title of Presentation	Presenter	Affiliation
14:45 - 15:00	*Arrival of Participants / Connection to the Platform*		
15:00 - 15:15	Welcoming Speech	Prof. George Boustras	EUC / CERIDES
15:15 - 15:25	Brief introduction to The National Knowledge and Research Center for Emergency Readiness	Prof. Deborah Shmueli	University of Haifa, National Knowledge and Research Center for Emergency Readiness (NKRCER)
15:25 - 15:45	The Arakappas fire & the FirEURisk Project	Mr. Iasonas Senekkis	EUC / CERIDES
15:45 - 16:05	A Resilience Toolkit	Dr. Shay Ben Yosef	University of Haifa (NKRCER)
16:05 - 16:25	Pyrolife, the Fire Marie Curie Training Network	Ms. Pooja Pandey & Ms Judith Kirschner	EUC / CERIDES
16:25 - 16:45	Following the 2010 Mt. Carmel Fire: Lessons Learned and Recommendations	Prof. Lea Wittenberg	University of Haifa (NKRCER)
16:45 - 17:05	Large Scale Civil Protection Exercises	Mr. Evangelos Katsaros	EUC / CERIDES
17:05 - 17:25	Science-Policy Interface in Emergency Management and Disaster Risk Reduction: Challenges and Potential Solutions	Dr. Alex Althuler	University of Haifa (NKRCER)
17:25 - 17:45	New technologies for first responders, RESPOND-A	Prof. George Boustras	EUC / CERIDES
17:45 - 18:00	*Reception*		

Figure 3: Day 1 agenda- "Regional Collaboration in Disaster Prevention: the cases of Israel & Cyprus"

Time Period	Title of Presentation	Presenter	Affiliation
09:15 - 09:30	*Arrival of Participants / Connection to the Platform*		
09:30 - 10:00	Opening Remarks	Prof. George Boustras	EUC / CERIDES
		Prof. Andreas Efstathiou	Rector, European University Cyprus
		Dr. Nikos Christodoulides	HE the Minister of Foreign Affairs of the Republic of Cyprus
		Mr. Sam Beever	HE the High Commissioner of Australia in the Republic of Cyprus
10:00 - 10:20	Actions, programs and lessons learned in the 10 years since the Royal Commission into Black Saturday	Mr. Michael Bourne	Victorian Country Fire Authority
10:20 - 10:40	The Arakappas fire & the FirEURisk Project	Ms. Klelia Petrou	EUC / CERIDES
10:40 - 11:00	Public health and behavioural science approaches to bushfire prevention	Dr. Carlyn Muir	MUARC
11:00 - 11:20	Pyrolife, the Fire Marie Curie Training Network	Ms. Pooja Pandey & Ms. Judith Kirschner	EUC / CERIDES
11:20 - 11:40	The need for good data and evidence to underpin decision-making	Dr. Stuart Newstead	MUARC
11:40 - 12:00	Large Scale Civil Protection Exercises	Mr. Evangelos Katsaros	EUC / CERIDES
12:00 - 12:20	Community resilience program - a Victorian case study	Francis Archer / Caroline Spencer	MUARC
12:20 - 12:40	*Reception*		

Figure 4: Day 2 agenda- "Lessons learned from past disasters. Perspectives from Australia"

Researchers from EUC participating in FirEURisk and the EUPB coordinators, Figure 5, presented the FirEURisk project and its objectives, demonstrating the need for a holistic risk-wise strategy for European wildfire management by presenting the wildfire in the Arakapas area, happened in July 2021, which killed 4 people and spread into urban areas destroying properties.

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The sessions have highlighted the similar wildfire challenges faced by the countries of East Mediterranean region and to some extent in Australia and the justified interest by institutions to perform research in mitigating the risk of wildfires and focusing on their prevention and management of fire-prone areas, which are also included into FirEURisk objectives.

The presentations and discussions during both days are available online on the YouTube channel of European University Cyprus. (https://youtube.com/live/4rRTvYeKXAI?feature=shares, https://youtube.com/live/UGcwI-hR7ZA?feature=shares)



Figure 5: Day 1 & Day 2 FirEURisk presentation by EUP coordinators

4.2.2 NEMAUSUS- DG-ECHO Project- Cyprus Mapping Meeting- December 2021

On the 9th and 10th of December 2021 (M9), it was organised the Cyprus Mapping Meeting of the NEMAUSUS project (DG-ECHO Knowledge Network) in a hybrid mode and the meeting in physical presence took place on the premises of European University Cyprus (Figure 6). The NEMAUSUS project has provided a preliminary study on the establishment of a European Centre of Expertise (CoE) dedicated to forest/wildfires. The CoE is based on the existing French civil protection base in Nîmes-Garson (France) as the main entity of a system gathering knowledge related to the wildfires topic within the EU and will be able to integrate already existing dedicated infrastructures of the voluntary EU member states.

The EUPBF coordinator (EUC), presented FirEURisk objectives during the meeting, generating discussion focused on the urgent need for the development of a holistic strategy on wildfires to apply to EU member states and it was received with the enthusiasm that extreme events are included in the research of the project.



Figure 6: Presenting FirEURisk

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4.2.3 RESPOND-A- HORIZON 2020 Project- WEBINAR- March 2022

Continuing with the activities organized by EUPB coordinators a joint online event in the form of a webinar was organized between RESPOND-A and FirEURisk projects. The webinar took place on the 3rd of March 2022, and it was attended by 60 people. The participants were members of both projects' consortiums.

RESPOND-A is developing holistic and easy-to-use solutions for First Responders combining the capabilities of its Investigators in 5G wireless communications, Augmented and Virtual Reality, autonomous robot, and unmanned aerial vehicle coordination, intelligent wearable sensors and smart monitoring, geovisual analytics and immersive geospatial data analysis, passive and active localization and tracking, and interactive multi-view 360o video streaming. The aim is to use these technologies in a variety of fighting and rescue services including fighting wildfires.

The webinar agenda, Figure 7, included the project presentation by the coordinators, of RESPOND-A (EUC) and FirEURisk (ADAI). Then, it followed a presentation by UAVR, with the title "Smoke dispersion modeling activities", as part of WP2-Fire risk reduction and more precisely A2.3.2 Smoke-modelling and Health impact of FirEURisk. The last presentation was from RESPOND-A partner Hellenic Instruments, Greece, with the title "New technologies for First Responders and Integration" (Figures 8 and 9).



Figure 7: Webinar Banner & Agenda

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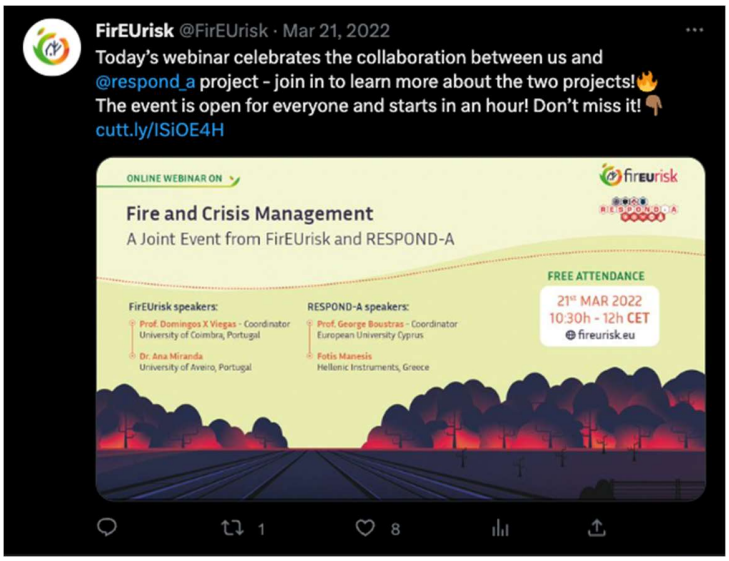


Figure 8: Dissemination of the webinar in FirEUrisk on the Twitter account

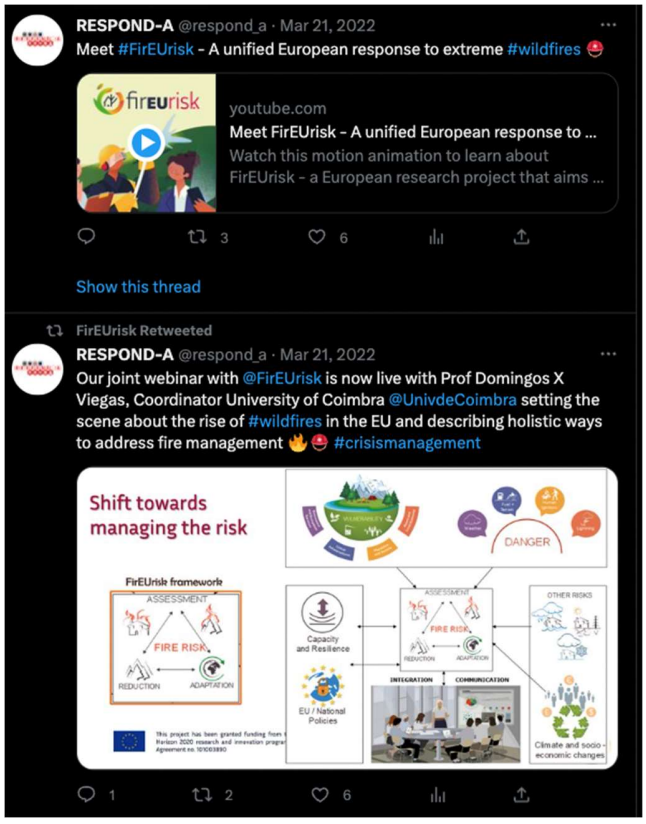


Figure 9: Dissemination of the webinar on RESPOND-A Twitter account

The advanced technologies for use by the first responders, present the evolution of the measures for prevention, management, and equipment for firefighting of wildfires. The use of this category of technologies could be used in the management of fire-prone areas for risk-reduction and to be included in the strategy development for each area and EU member state depending on their needs.

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The recording of the webinar is available on the FirEURisk YouTube account, (https://youtu.be/OHgm6cGCQjQ), and is also posted on 2the FirEURisk website under the events tab (Figure 10).



Figure 10: The webinar recording is posted on the FirEURisk website

4.2.4 FIRELOGUE- HORIZON 2020-GREEN DEAL- MEETINGS & WORKSHOP

Nearly after Y1, in M10, it was established the collaboration with FIRELOGUE. FIRELOGUE (Horizon 2020-Green Deal call) is responsible to bring together expertise from all around Europe working on wildfire risk management topics. FIRELOGUE consortium includes researchers and civil society organisations, whichhave the experience and knowledge on all aspects of WFRM. It aims to create a space for dialogue between the WFRM specialists and to act as a platform for knowledge and experience exchange, gathered alongside the showcase of innovative actions and products.

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. The parallel discussions and actions required in order to communicate and co-ordinate with FIRELOGUE amended the approach of the EU project Board in order to be clear as to what needs to be done and avoid duplication of tasks and work so that all fire-related projects benefit from the networking activities where possible. From thereafter, FirEURisk EUP coordinators (EUC) and the communication manager (SCIENSEED) are in continuous communication with the FIRELOGUE cluster co-ordination team and participate in meetings and joint actions. Additionally, FIRELOGUE and FirEURisk are sharing some of their partners making the collaboration even stronger. The actions are listed below:

- Regular participation in meetings for the joint activities, by EUC, SCIENSEED, and ADAI,
- UAH attended the related H2020 FIRELOGUE meeting that took place in Berlin on 17-19 December 2020,
- Liaison between FirEURisk and FIRELOGUE communication teams to inform of mutual activities and include FirEURisk in their website,
- Participated in a survey prepared by FIRELOGUE with details about FirEURisk and its communication and dissemination actions, (Figure 12)
- FirEURisk is included in the Newsletter prepared and released by FIRELOGUE, https://firelogue.eu/blog-post-layout.php?25

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- Participation in the WFRM Clustering event, 5th-6th of April 2022, which brought together 8 European projects (SILVANUS, FIRE-RES, TREEATS, FIRELOGUE, FirEUrisk, SAFERS, FIRElinks, FIRE-IN), **Erro! A origem da referência não foi encontrada.**
- Under the initiative EU FIRE PROJECTS UNITED, FirEUrisk coordinator ADAI participated in the production of a video, published on the YouTube channel of FIRELOGUE (https://www.youtube.com/watch?v=VivY3NTzuyo&ab_channel=Firelogueeu)
- Presentation for Joint Dissemination Workshop, 23rd January 2023, by UdL with the title "Developing a holistic, risk-wise strategy for European wildfire management", presenting FirEUrisk in general and outputs from the fuel classification mapping research as part of WP1. In the workshop also participated, FIRELOGUE, SILVANUS, FIRE-RES, TREEATS, SAFERS, FIRElinks, FIRE-IN, Pyrolife, FIRE-ADAPT.
- Continuous communication and dissemination activities to the project's consortiums, including those organised by the EUP board for FirEUrisk.

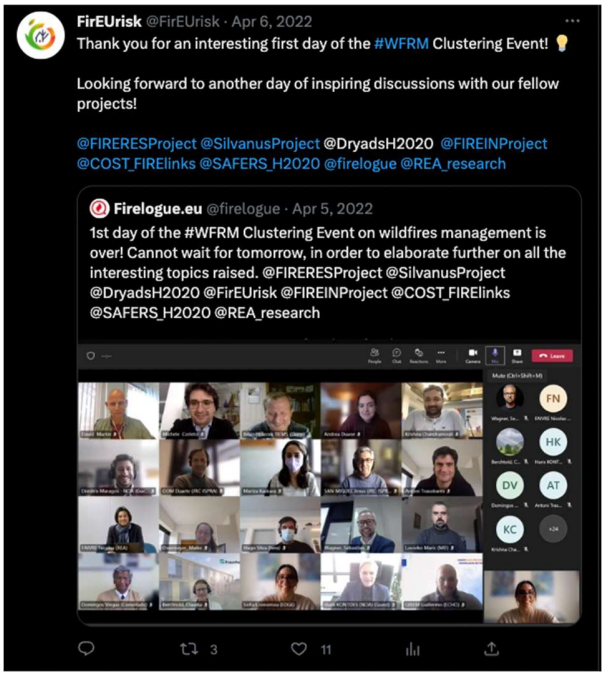


Figure 11: Dissemination of WRMF clustering event on the FirEUrisk Twitter account

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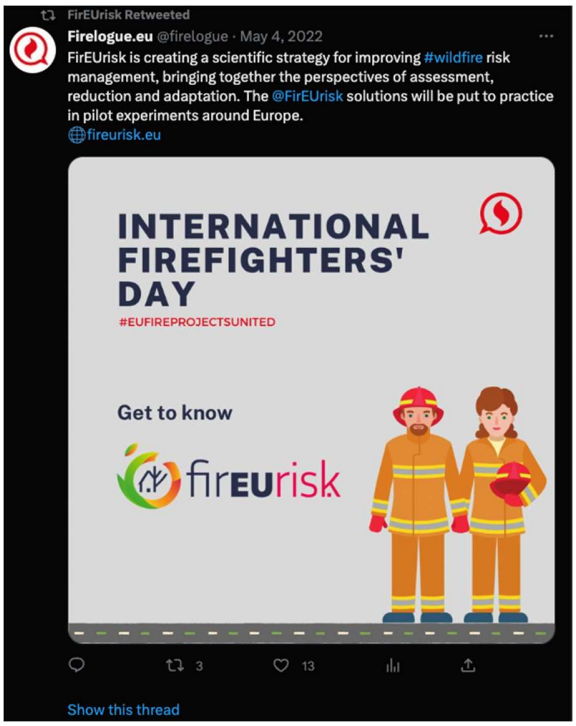


Figure 12: Disseminating FirEURisk on FIRELOGUE Twitter Account

4.2.5 Perspectives on Landscape Management to Reduce Wildfire Risk

The EUP invited the coordinators of LIFE Resilient Forests (UPV) and VESPRA (GMT), and ADAI for a joint webinar with the title "Perspectives on landscape management to reduce wildfire risk", as it was agreed that the land management in respect of wildfire was a common area of research in the three projects. The webinar took place on the 14th of March 2023. The targeted audience was researchers, academics, WRMF, and stakeholders in land management (Figure 13).

LIFE Resilient Forests is a project co-funded by the EU LIFE program to promote a forest management approach at the watershed scale that improves forests resilience to wildfires, water scarcity, environmental degradation, and other effects induced by climate change.

VESPRA- Vulnerable Elements in Spain and Portugal and Risk Assessment- arises for the improvement of risk management mechanisms between Spain and Portugal for the case of local risks, but other general risks will be considered, such as the affectation by adverse meteorological phenomena or the dispersion of pollutants over wide areas.

The webinar agenda included presentations from the work performed by the 3 projects, listed below. On behalf of FirEURisk, STICHTINGVU presented the ongoing work and outputs from WP2- Risk Reduction to improve protection, A2.2.1-LMS applicability. The webinar was well received with 128 attendants showing interest in the presentations and providing positive feedback.

- LIFE Resilient Forest: UPV- Title "Coupling water, fire and climate resilience with biomass production from forestry to adapt watersheds to climate change".

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- VESPRA: ADAI & MTG- Title" Planning and response operations to wildfires, floods and industrial accidents based on the vulnerability"
- FirEURisk: STICHTING VU-Title "Addressing fire risk through land management: Exploring opportunities and trade-offs in Europe through spatial analysis and land-use modeling"



Figure 13: Webinar Banner & Agenda

Life Resilient Forests and VESPRA, provided a demonstration of their tool and platform developed. Life Resilient Forests presented their Decision Support System, DSS-C.A.F.E. to be applied for forest management. VESPRA has developed a platform for assessing the vulnerability of an area.

The recording will be available on the FirEURisk YouTube channel and website.

4.3 Future Plans

EUP is organising a webinar on the 26th of April (M25) with the collaboration of FireLINKS and Pyrolife projects including 2 thematics, (1) Wildfire Management and (2) Policies Review. In the 1st Thematic FireLINKS and FirEURisk will be present, and the 2nd Thematic will be shared between Pyrolife and FirEURisk.

From FirEURisk for the Wildfire Management, it is agreed to be presented the works done by WP2-Risk reduction to improve protection, A2.3.3-Curiccula for Extreme Fires and WUI and A2.4.3-Citizes involvement in wildfire risk reduction. Then, for Policies Review it will be presented the works done WP6-Policu Integration & outreach-Networking & dissemination, A6.4.1 Review Policies.

The presentation titles are still to be confirmed and a banner will be created for disseminating the event.

Furthermore, EUPB will continue its participation in FIRELOGUE meetings and discussions ensuring FirEURisk involvement in the activities organised.

Additionally, EUPB is in contact with other EU funded projects, such as FIRE-RES and DEEP CUPE for organising webinars in the near future.

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4.4 Challenges & Outcomes

During Y1 and until FirEURisk WPs have outputs to present the FirEURisk presentation was focused on its objectives and approach for developing the holistic risk-wise strategy for European Wildfire management. Although, this could be taken as positive as it created interest and attracted the attention of other EU-funded projects consortiums which wanted to further engage with FirEURisk and track its progress.

The joint activities with other EU-funded projects have given even more visibility and publicity to the project. It is foreseen that as more outputs are presented by the WPs extensive work then more synergies and activities will be organized. Additionally, FirEURisk partners are exposed to other projects work and are given the opportunity to them to avoid work duplication.

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5 Conclusions

Deliverable 6.2- FirEURisk network sustainability plan-First Version, presents the work performed by EUAB, SciF, and EUP on creating and sustaining a network with external stakeholders and other EU funded projects shared with FirEURisk their expertise, knowledge, their network and presented the importance of the successful implementation of the project.

The EUAB and SciF have been promoting the exchange and expertise of operational agents and relevant end-users on Pilot/Demo Sites and capitalizing on existing networks of world-leading scientists to extend knowledge transfer. Furthermore, collaboration with other EU projects via EUPB is essential for sharing knowledge, and ideas but also for limiting the duplication of work.

The activities of the two boards and forum will be continuous throughout the project duration to provide constructive feedback and ensure the project's success and long-term legacy. and achieving the sustainability of the networking activities

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6 References

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[2] European Civil Protection and Humanitarian Aid Operations - European Commission. (2021) Projects awarded under the annual Call for Proposals for Prevention and Preparedness in Civil Protection [online] Available at: <https://ec.europa.eu/echo/funding-evaluations/financing-civil-protection-europe/selected-projects_en> [Accessed 28 May 2021].

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7 Annex A: EUP- Ongoing EU funded projects list

Year	Funded by	Title	Description	Coordinator	Duration	Website
2018	LIFE	LIFE Resilient Forest: Coupling water, fire, and climate resilience with biomass production in Forestry to adapt watersheds to climate change	LIFE RESILIENT FORESTS project is about improving the resilience of forests to climate change and enhancing resilience to wildfire, environmental degradation, and other climate-induced disturbances.	Research Institute of Water and Environmental Engineering – the Technical University of Valencia, (ES)	66 months; (1 of Oct 2018-31 Mar 2023)	https://www.resilientforest.eu/
2021	HORIZON 2020	FIRE-RES Innovative technologies and socio-ecological-economic solutions for fire resilient territories in Europe.	FIRE-RES will develop an integrated fire management strategy to efficiently and effectively address extreme wildfire events in Europe.	The **Forest Science and Technology Centre of Catalonia**, (ES)	48 Months (1 Dec 2021-30 Nov 2025)	https://fire-res.eu/about-fire-res/
2021	HORIZON 2020-Green Deal	FIRELOGUE-Cross-sector dialogue for Wildfire Risk Management	FIRELOGUE aims to coordinate and support the Innovation Actions (IAs) by integrating their findings across stakeholder groups and fire management phases.	Frauhofer Institute for Technological Trend Analysis INT, (DE)	48 Months (1 Nov 2021-31 Oct 205)	https://firelogue.eu/
2021	HORIZON 2020-Green Deal	SILVANUS-Integrated Technological and Information Platform for wildfire Management	The key project output is the release of a climate-resilient forest management platform to prevent and limit the spread of forest fires. The project will develop intelligent fire ignition models using climate and weather	UNIVERSITA TELEMATICA PEGASO, (IT)	40 Months (1 Oct 2021- 31 Mar 2025)	https://www.cmcc.it/projects/silvanus-integrated-technological-and-information-platform-for-

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			data, as well as a stakeholder engagement program in forest regions to assess fire risk indicators. SILVANUS will also create a training methodology for firefighters, featuring VR and AR training toolkits to simulate real-world environments and life-saving scenarios.			wildfire-management
2021	HORIZON 2020-Green Deal	TREEADS- A Holistic Fire Management Ecosystem for Prevention, Detection, and Restoration of Environmental Disasters	TREEADS will tackle several major challenges that wildfires pose by building upon state-of-the-art high TRL products and uniting them in a holistic Fire Management Ecosystem consisting of various innovative technologies and systems to optimize and reuse the available Socio-technological Resources in all three main phases of Wildfires.	RISE FIRE RESEARCH AS (FRN) (NO)	42 Months (1 Dec 2021-31 May 2025)	https://treeads-project.eu/
2021	HORIZON 2020-Green Deal	DeepCube-Explainable AI pipelines for big Copernicus data	A Space project that will unlock the potential of big Copernicus data with Artificial Intelligence and Semantic Web technologies, with the objective to address problems of high environmental and societal impact	National Observatory of Athens (NOA) – (GR)	35 months (1 Jan 2021-31 Dec 2023)	https://deepcube-h2020.eu/
2021	DG-ECHO	NEMAUSUS-Network of European Multihazard	The NEMAUSUS project will provide preliminary settings of a European Centre of	Ministry of Interior, France	18 months (18 Oct 2021- 17 Apr 2023)	https://civil-protection-knowledge-

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		capacities hub of Scientific Understanding and Sharing	Expertise (CoE) dedicated to forest/wildfires. The Centre will rely on an existing French civil protection base in Nîmes-Garons (France) as the main entity of a system gathering knowledge related to this topic within the Union and will be able to integrate already existing dedicated infrastructures of the voluntary EU Member States.			network.europa.eu/projects/nemausus
2023	SEMEDFIRE- South Eastern Mediterranean Excellence Development in Fire Research	HORIZON-WIDERA- 2021	SEMEDFIRE aims to enhance the capacities and knowledge acquisition of the Widening institution; EUC, in Research-&-Innovation (R&I) and ResearchManagement -Administration (RMA) relating to Fire Safety and Fire Management. This is aimed through networking activities with five top-class leading counterparts at the EU level; Imperial College, Wageningen University, Pau Costa foundation, French General Directorate of civil security and crisis management, and Nimes Metropole, which represent a multifaceted, but complementary and synergistic, geography	European University Cyprus- CERIDES	35 months (1 Dec 2022 to 30 Nov 2025)	Not published yet

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			of R&Iphilosophies and approaches.			
2023	FIRE-ADAPT	Marie Skłodowska-Curie Actions (MSCA)	FIRE-ADAT aims at addressing the full diversity of fire types and their different contexts by bringing together expertise from across regions from the Mediterranean Basin and Latin America for improving and understanding the role of IFM (Integrated Fire Management for wildfire prevention and for enhancing natural and cultural ecosystem services.	PAU-COSTA Foundation	48 months (1 Jan 2023-31 Dec 2026)	http://www.fireadapt.eu/en/ (Temporary)

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