

Learn more & **Join us!**

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Start date: 17 October 2023

End date: 16 October 2027

This material is based upon work from COST Action NERO, CA22164, supported by COST (European Cooperation in Science and Technology).

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European Network on
Extreme fire behavior

COST Action CA22164

*Navigating the fire environment to
ignite preparedness and readiness for
extreme wildfires*

<https://nero-network.eu>

Description

Recent destructive fire seasons indicate the emergence of a **new era of extreme wildfires** that challenge our adaptation limits. Despite considerable progress in understanding extreme fire behavior in recent decades, our current knowledge falls short in accurately predicting the size and intensity of recent extreme events. There is still **much work needed** to advance our capability to identify those situations where extreme fire behavior may occur. This is a challenging endeavor that calls for re-evaluating current knowledge and introducing new paradigms.

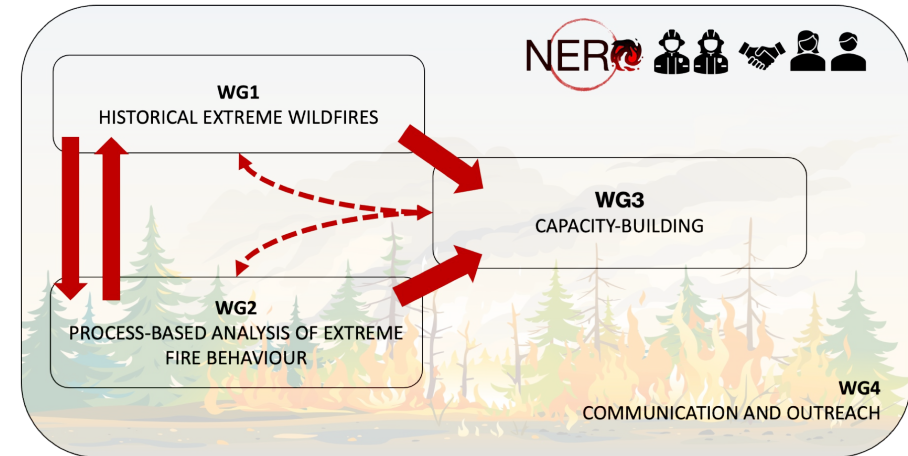
NERO confronts this challenge by **uniting wildfire researchers and practitioners** to advance our scientific understanding, thus making a pivotal step toward improving fire management, firefighter training and safety, and public safety planning. NERO aims to cultivate a European culture that fosters **effective cross-boundary sharing of expert knowledge**, including data and tools. Significantly, NERO aims to **bridge the gap between scientific findings and practical application**, advocating for efficient science-based wildfire management. Leveraging COST networking tools, NERO will train a new generation of highly qualified researchers and practitioners, specialized in addressing the challenges posed by extreme wildfires.

Objectives

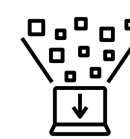
The overarching goal of NERO is to create and coordinate an international network that brings together wildfire scientists and practitioners to address the challenge of understanding and predicting extreme fire behavior.

The Action has a total of 14 specific objectives, divided into 9 objectives on research coordination and 5 objectives on capacity building.

Approach



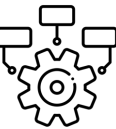
The activities of NERO are organized into **3 cross-cutting WGs**, resembling 3 overlapping research areas, plus 1 WG devoted to communication and outreach.



WG1: Historical Extreme Wildfires

WG1 focuses on collecting the data required to support the systematic analysis of extreme fire behavior.

WG2: Process-based Analysis of Extreme Fire Behavior
WG2 focuses on investigating the drivers of extreme fire behavior and developing new or improved models/tools to support capacity-building and raise awareness.



WG3: Capacity-building

WG3 aims to open new pathways for capacity building and improved training and safety across Europe.

WG4: Communication and Outreach

WG4 focuses on maximizing the impact of NERO and guaranteeing the network's sustainability through effective communication and outreach activities.

