

Report on the outcomes of a Short-Term Scientific Mission¹

Action number: CA22164

Grantee name: Peter Pantya, PhD.

Details of the STSM

Title: Examining the intervention and technical equipment possibilities of firefighters in wildfires

Start and end date: 30/06/2024 to 06/07/2024

Description of the work carried out during the STSM

As the planned purpose of this Short-Term Scientific Mission Grant, a partial research had been conducted within the network and framework of NERO Cost Action to identify the intervention capabilities of the Croatian and Hungarian firefighting forces in wildfires, to identify the technical tools that can be used, and to find innovative international, IT solutions. The originally planned dates were moved two weeks later for organizational reasons.

During the one-week period of this short research, the available formations of fire fighting in the two countries were analysed and compared. The different categories of technical tools and devices that can be used in general and for wildfires also had been analysed. Based on the capabilities of the sending and host universities, the novel technical and IT, data collecting solutions were explored and shared between the researchers, the sending and hosting organisations. More possibilities enlightened what are not part of the fire service toolbox in each countries, but could have a positive impact during fire protection, sooner and more efficient interventions.

Working group meetings were held between the sending and receiving researchers at the University of Split, regarding the activities of fire departments and the IT, monitoring tools they are using in Hungary and in Croatia.

More on-site visit had been conducted in different locations and levels of Croatian Fire Units, at the Fire Department of Split and the National Firefighting Command and Coordination Center in Divulje.

The close future's cooperation possibilities between also the academic researchers, lecturers and between the firefighter practitioners also were discovered.

¹ This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant.

Description of the STSM main achievements and planned follow-up activities

The Short-Term Scientific Mission Grant definitively achieved its planned goals and expected outcomes in more fields. Based on more part of this STSM the contribution to Action objectives and deliverables are direct.

Both the outgoing and the receiving participants of this weeks's program got to know the operation of the fire brigades of the two countries and the currently applied solutions. The forest fire monitoring, warning and tracking system used in Croatia, as well as its integration into the day-to-day operations of the fire brigades, were learned by the visiting researcher.

The receiving, host researchers, lecturers learned about the opportunities for international collaboration, mobility to the educational, research organisation of the participating person in the STSM.

A lot of information collected by the grantee regarding the Croatian Fire Organisation, its working methods, vehicles, tools, equipment and IT systems. Based on what has been experienced, the video surveillance activity, which is very mature and embedded by the University of Split and the Croatian fire department was thoroughly investigated and became known to the participant in the mobility. These information gained is directly usable in the close future by the researcher of the STSM.

The participants of this period have agreed plans for future follow-up collaborations within the field of IT support for decision-making, fire interventions.