

AF3 Forest Fire Workshop in Rome: a one day conference focused on the present and future of firefighting technology

June 22nd 2017 at Istituto Superiore Antincendio (National Firefighting Academy), Rome, Italy

AF3 - Advanced Forest Fire Fighting - is a European project whose aim is to significantly improve the strategy of forest fire fighting techniques. AF3 objectives include:

- Facilitating international coordination among firefighting patrols all over Europe, in order to face trans-border wildfire in a more efficient way.
- Developing wearable and mobile technologies in order to follow and support personnel involved in operations in the field, and monitor their geographical position and health.
- Developing aerial advanced on board technology to create easier and safer flight conditions for aircraft and helicopters usually involved in firefighting operations.

Moreover, **sharing data** among European and Israeli firefighting patrols and other emergency groups, is very important in order to improve the simulation and forecast capability of fire development; a result that might be reached by integrating data from local orography, weather forecasts and other information in order to help control the fire spread.

Technologies researched and developed during the project include:

- A **web-based and mobile platform** to assist emergency headquarter control room facilities to share information, coordinate ground personnel and plan aerial intervention during an ongoing forest fire.
- **Wearable technologies** to ensure the georeferencing of personnel involved in ground operations, especially where risks are higher. This also enables monitoring the health status of fire-fighter personnel in the field and assists decision-making involving the withdrawal of personnel who show signs of excessive stress.
- A new **ground firefighting system** based on thermo-sensitive sensors that may grant a safe escape for citizens and fire-fighters in case of extreme risk, thanks to water nebulization.
- An **extra control on fire development** via **drones** with onboard multimedia capability, engineered to send data from unreachable areas of the fire, for a live overview of the ground situation.
- **Water bags** called **pellets**, developed in the project, which can be dropped on the fire from specially adapted aircraft and/or helicopters. Using pellets instead of water with chemical products keeps flights safer because of the height of the launch which is also more precise because of the pellets quality. The pellets are made of **biodegradable materials** and release the water contained in them much closer to the fire. This reduces drastically the water dispersion and the environmental impact of chemical products that are used in classical aerial firefighting techniques.

The final results of AF3, which ends in July 2017, will be discussed during the final meeting in Rome, Italy in June 2017.

For more information about the event: <http://af3project.eu/af3-workshop-on-forest-fire-models-rome-22-june-2017/>

Registration is free. Please send a request to attend by email to: relazionierne.isa@vigilfuoco.it

AF3 is a European Commission FP7 Framework Programme project project implemented by a consortium of **20 members from 10 Countries**.

The AF3 project partners are: The Ministry of Interior – Department of Fire Corps, Public Rescue and Civil Defence (IT), Politecnico di Torino (IT), Leonardo S.p.A. (IT), ELBIT System Ltd (IL), EFPC (UK) Ltd, Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V (DE), Intracom Sa Telecom Solutions (GR), National Centre for Scientific Research - Demokritos (GR), Skytek Ltd (IE), Centrum Badan Kosmicznych

Polskiej Akademii Nauk (PL), Pyro Fire Extinction S.L (ES), The University Of Westminster Lbg (UK), EADS - Construcciones Aeronauticas S.A. (ES), Ministry Of National Defence, Greece (GR), Universitat Politecnica De Valencia (ES), Empresa De Transformacion Agraria S.A. (ES), Linkopings Universitet (SE), ARIA Technologies (FR), Israeli Ministry of Public Security (IL).

AF3 - Advanced Forest Firefighting - Communication Services
Maria Costanza Candi | + 39 349 1019253
<http://af3project.eu/> | af3_communication.service@polito.it

Follow us:

<https://twitter.com/Af3Project>

<https://www.instagram.com/af3project/>

<https://www.facebook.com/AdvancedForestFirefighting/>