

ARVENTO INDUSTRY SPECIFIC SOLUTIONS

FIRE MANAGEMENT SYSTEM

The Fire Management System is a **special emergency operation** management system developed by Arvento in order to fight against fires more efficiently. With the advanced technology solution it offers early and efficient interventions are ensured.



On-line Fire Management From a Single Center

In case of a fire in any location, the system which works through vehicle tracking devices, GPS satellite tracking system and digital maps, directs the closest vehicles to the emergency site and allows the operation to be followed via satellite. The whole fire process can be managed in real-time via the Internet.

Tracking and Control of the Fire Teams through Internet

The system allows the fire teams to view the fire area, surrounding areas, firefighters and vehicles as well as aerial vehicles in the area in real-time with a bird's eye view.

This information is used to direct the closest teams to the emergency site and to provide support against the risk of fire spreading. The direction, speed and duration of the fire vehicles assigned to that particular fire can be managed from the command center as well as smart phones or tablet PCs.



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Fire Recording Control and Statistical Reporting

The fire recording control and statistics software is very instrumental for fire interventions. The performance and movements of all components involved in fire management can be measured with this software.

The activities of vehicles and heavy duty vehicles can be tracked with retroactive reports. Detailed information such as departure and arrival times and duration of flights of aerial vehicles, the optimal routes to be followed to reach the emergency site, their water sources and their number of sorties against the fire, whether the water is distributed correctly or not and the number of hours the vehicle was on duty can all be reported.

Prevention of Loss of Life and Property

The system helps preventing the loss of life and property by early intervention to the fire area. It also helps to save time, fuel and labor by monitoring and controlling the vehicles and fire teams' performance.

Contributing to the Environment and Nature

Forest fires kill the vegetation, insects and animals in the forest, pollute water sources and affect the climate; therefore, the area's ecosystem may be negatively impacted. In this regard, the system directly and indirectly contributes to the protection of the environment.

Who can benefit from the Fire Management System?

The Fire Management System can be used by all private companies and public institutions that provide emergency operation services.

Sample Reference:

A special "Forest Fire Management System" has been developed for the Turkish Ministry of Forestry and Water Affairs's General Forestry Directorate. With the Arvento vehicle tracking devices and special fire management software installed in 5.399 vehicles of the General Forestry Directorate, all operations can be managed through computers and in an integrated manner with geographical information systems.

Award-winning System

- The Fire Management System has been selected as "Turkey's Most Successful e-government Project" by the Turkish Informatics Foundation and TÜSIAD at the 2008 e-TR awards.
- This project has also been selected as the "Most Successful Corporate Application of 2008" by Turkey's largest GSM operator TURKCELL.



Republic of Turkey
Ministry of Forestry and Water Affairs



Ankara District Forestry Department



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General Forestry Directorate's Reference Letter

The "Vehicle Tracking – Forest Fire Management System" project we carried out jointly with Arvento, is a special project through which we found answers to questions like how to fight fires nation-wide more effectively and efficiently, and which methods should be used for fire interventions. For early and efficient intervention the fire zone must be reached promptly, before the fire spreads further. Besides, the evaluation of questions like which method and which vehicles should be used and which points should be departure points are of utmost importance to achieve minimum loss.

At the beginning the project, it was planned only for the water trucks and heavy duty vehicles belonging to the Forestry Operation Directorates of 1st degree sensitive areas and a total of 852 vehicles were selected. Then, because of significant economic benefits and efficient fire intervention provided by the result of project, its scope was expanded and today 5.399 vehicles of the General Forestry Directorate are equipped with this system. This has allowed us to form the strongest fire force in the country (including leased planes and helicopters). We are aiming to include all our remaining zones and service vehicles in the project within a medium-term plan.

Our project is one of the largest e-government projects carried out in Turkey to date and it is being followed with great interest in Turkey and abroad.. We have been receiving invitations from forest and environment authorities of various countries regarding the application and adoption of the project in their countries.

We would like to thank Arvento for bringing this project into life which will set an example both in our country and around the world.

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Republic of Turkey
Ministry of Forestry and Water Affairs



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