

GIS Analysis as Support for Firefighting Interventions in the City of Zagreb

Boris Guberina¹, Darko Brlečić², Dino Bečić

boris.guberina@zagreb.hr

¹City of Zagreb – Office for Emergency Management

²Fire Department of the City of Zagreb

Abstract

We produced a GIS analysis for fire-fighting interventions of the Fire Department of the City of Zagreb in order to improve and increase the efficiency of the Fire Department of the City of Zagreb and to reduce the time of arrival to the farthest surveillance zone. The paper describes the data collection and analysis process, as well as their modelling and simple implementation, in addition to a complex GIS analysis, which is going to provide areas of competent service to the area of action and borders of city districts. An analysis of fire-fighting interventions distribution, hot spots of action services and an analysis of the optimal location for distribution of fire stations and outposts are also presented.

Keywords: GIS, fire-fighting, cartographic visualization, crisis situations, Zagreb