

DISASTER RISK MANAGEMENT AND CADASTRE

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Disasters are natural events that cause loss of property and life and it occurs substantially or completely beyond control of humanity. In order to decrease casualties and huge economic losses, it is vital to research natural disaster risk and make a comprehensive disaster risk management. In Disaster Risk management for making analysis and maps, first and foremost step is the collection of spatial data. Cadastre has an important role to provide data in the planning rural and urban areas also in disaster risk management. Although cadastre is a base data source for real property data (Parcels, Buildings, Agriculture e.g.) to determine risk area particularly, relationship between cadastre and disaster risk management is not fully ensured. So, determined risk areas are not considered in the operations on subjects (registration, purchase-sale, assessment) of real property. In this study, for using risk areas in cadastre and data which are collected from cadastre works in disaster risk management, creating spatial data model is intended. Within this framework, a new cadastre integrated risk management model is created with Geographic Information System techniques for landslides and applies on pilot area in Rize Province to calculate risks at real properties.

Keywords Disaster, GIS, Cadastre