

CLE and the Mitigation of Emergencies and Natural Crises

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SUMMARY

In the last decade, Italy has faced numerous natural disasters, such as earthquakes and floods, which have generated considerable damages to historical and cultural heritage, property and natural landscape. To deal with this situation and in order to eventually mitigate the effects of such emergency situations, the Dipartimento Nazionale di Protezione Civile (National Department of Civil Protection), together with the various government agencies, as well as technical volunteers (especially the Italian Surveyors), has conducted the study of "Condizioni Limiti di Emergenza"(CLE). These spatial data are the key elements that allow both local municipality, provinces and regions to update or create dynamic Emergency Plans (municipal, inter-municipal, regional). The main product, which are GIS-based thematic maps, take in consideration the following parameters: presence of strategic structures, the risk of the areas of interest to some natural phenomenon (landslide, earthquake , flood), demographic analyzes and territorial subzoning (microzonizzazione territoriale). This report thus aims to illustrate the stages that are set and enforced to help reduce possible emergency situations, to provide a general outlook on the the process of data collection and real-time updating, to design stadardized emergency plans and the potential integration of these spatial data on existing urban planning instruments.