## Surveyors' Role In Post-Seismic Scenario: The Earthquake In Centre Italy

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## SUMMARY

The summer of 2016 has put a significant strain on Central Italy with four strong earthquakes happening within two months. The initial shock on the early morning of August 24 caused major damages in Apennine spine between the regions of Lazio and Marche, while those succeeding tremors of October 26 and 31 extended the damage to real estate and infrastructures the region of Umbria and the northern area of the Marches.

Alongside the Dipartimento della Protezione Civile, numerous volunteer surveyors, actively lent their technical-organizational knowledge to support the post-seismic operations related to the rescue and relief, damage monitoring and assestment, data management and digital mapping of the affected areas, and habitability inspections and fit-for-use analysis of the remaining buildings left standing within seismic crater. The need for rapid and effective monitoring of the damage suffered by the housing compendium and the number of unusable buildings is necessary in order to have a rapid catastrophic damage estimate, albeit summary, caused by the earthquake, and the number of people that are to be relocated in temporary shelters and facilities.

This report also highlights the experiences of volunteer-surveyors during the most critical situation, especially in the days following the earthquake, and the role that each played in the coordination and monitoring. Finally, it will illustrate "Erikus - Emergenza Rischio Sismico," a Quantum GIS plugin designed by the Piedmont Region for the purpose of seismic data management.

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