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A prototype system based on satellite data to support the end users for damage assessment: the PREVIEW project

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PREVIEW (PREVention, Information and Early Warning) is an integrated project within the Sixth Framework Programme of the European Commission. The objective of Preview is the development of a prototype system to support end users (i.e. national Civil Protections) decisions during crisis management and in the prevention phase. PREVIEW Project provide the information services for the mapping, monitoring, forecasting and awareness of risk, as well as damage assessment for natural and man activity related risks. Here we describe the products and the services provided for the damage assessment within the Earthquakes and Volcanoes platform. Some test areas have been selected among the main seismic and volcanic European prone regions. We present the damage evaluation service prototype developed for the Turkish study area. The system will be provided to the end users for their damage assessment activities. The capabilities of SAR and optical satellite data for damage parameters retrieval have been exploited. Therefore the damage map from remote sensing has been compared with the ground truth data concerning the city of Adapazari, strongly affected by the 1999 Izmit earthquake. The description of the WebGIS developed for the erthquake and volcano platform is also presented.