Remote Sensing for Seismic Risk Management in Pavia

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The Remote Sensing Group at the University of Pavia is active on the use of Remote Sensing for Risk Management, with special emphasis on seismic risk. Their activities include the GMES Fast Track project SAFER, within which a block-based urban seismic damage assessment method was developed and that has been independently assessed and included in the "Emergency Product" portfolio of SAFER. The Group is also involved in the Global Earthquake Model (GEM) initiative, which aims to establish uniform, open standards to calculate and communicate earthquake risk worldwide, by developing a global, state-of-the-art and dynamic earthquake risk model together with the community and ensuring it has understandable interfaces and tools for GEM's multitude of stakeholders. They take part to the GEM IDCT project and the GED4GEM project. The former aims at developing remote sensing-based and direct observation-based methods to fill in a global vulnerability repository; the latter is building the repository itself, mutuating also from already available global, regional and local geospatial data. The Remote Sensing Group has also held the lead of GEO (Global Earth Observation) WorkPackage task DI-09-01a on "Vulnerability Mapping and Risk Assessment".