

Report: The Survey activity for the volcanic vulnerability assessment in Torre del Greco

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The Vesuvius Case Study was developed in the framework of the topics foreseen in the activities of Working Group 4 ('Risk Assessment for Catastrophic Scenarios in Urban Areas') of the EU COST Action C26 ('Urban Habitat Constructions under Catastrophic Events').

The Vesuvius Case Study is based on a detailed assessment of Volcanic Vulnerability in the context of Multi hazard scenario. The study is based on the in-situ investigation, on the basis of detailed surveys survey, for the volcanic vulnerability assessment of different construction typologies.

The building typologies identified for analysis include:

- residential buildings
- historical buildings
- school buildings
- monumental villas

The historical buildings are located in Torre del Greco. All structures are located in selected areas exposed to volcanic hazard. During this activity, the building identification is based on an expert visual investigation, supported by an ad hoc form, related to the building vulnerability to seismic and volcanic actions. The data collection through the in-situ surveys supports detailed assessment of volcanic vulnerability of different building typologies.