





Support Action for Strengthening PAlestine capabilities for seismic Risk Mitigation SASPARM 2.0

2014 PROJECT FOR CIVIL PROTECTION FINANCIAL INSTRUMENT PREPAREDNESS AND PREVENTION SCHEME

ITALIAN SESMIC RISK MAPS

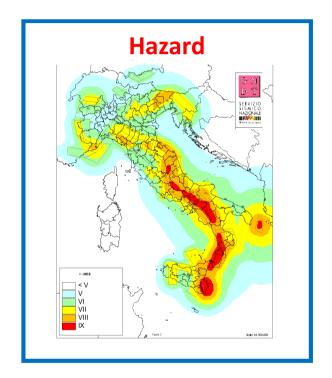
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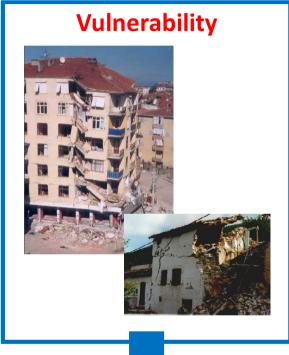


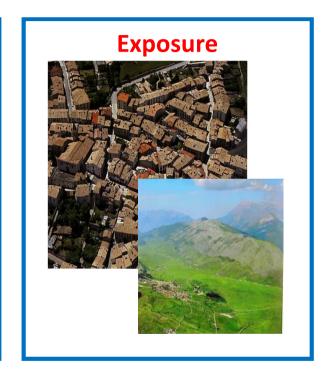














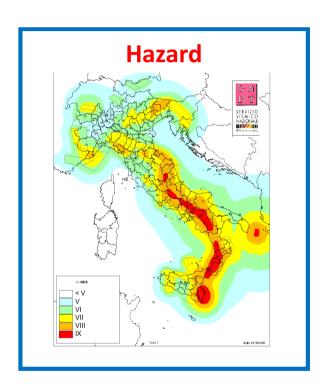
SEISMIC RISK











The seismic hazard is the severity of ground shaking.

The characteristics of the expected earthquake for each municipality are reported in the Italian Seismic Code.



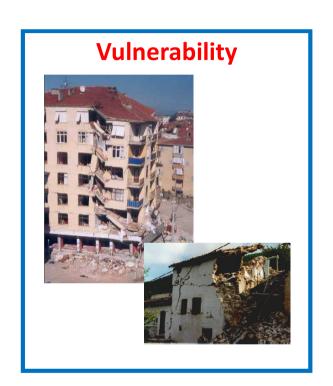






The buildings vulnerability is the susceptibility to damage.

We have used a simplified model of the building behavior.



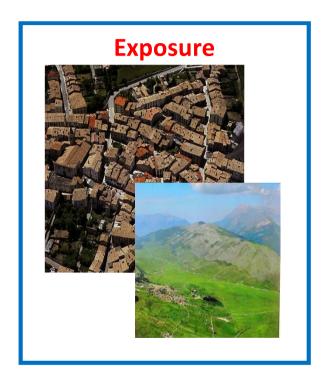








Italian census database elaborated in 2001 that reports the number of buildings, dwellings and population for each area within the municipality











EXAMPLE 1 OF ITALIAN SEISMIC RISK MAPS

L'Aquila 2009 earthquake

- > April 6, 2009
- Magnitude = 5.8
- Distance from the city of L'Aquila < 10 km
- Earthquake depth = 9 km



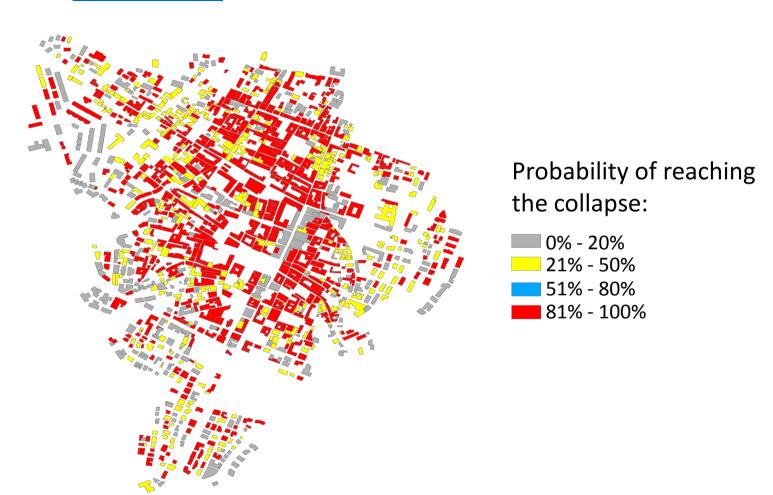








EXAMPLE 1: DAMAGE SCENARIO FOR L'AQUILA











EXAMPLE 2 OF ITALIAN SEISMIC RISK MAPS

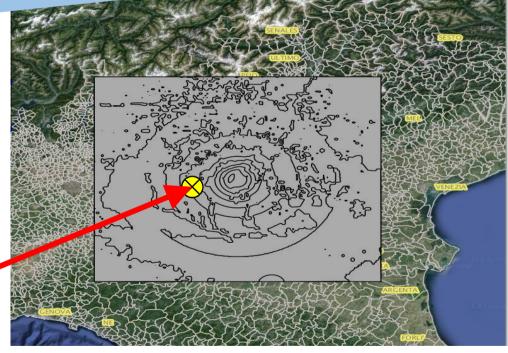
25 dicembre 1222 earthquake

Magnitude = 5.8

Distance from the city of Ghedi= 30 km

> Earthquake depth = 10 km

GHEDI





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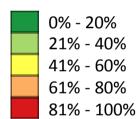






EXAMPLE 2: DAMAGE SCENARIO FOR GHEDI

Probability of reaching the light damage:













EXAMPLE 2: DAMAGE SCENARIO FOR GHEDI

Probability of reaching the severe damage:

0% - 20% 21% - 40% 41% - 60% 61% - 80% 81% - 100%





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EXAMPLE 2: DAMAGE SCENARIO FOR GHEDI

