

## Seismic hazard, seismic vulnerability and seismic risk

*A probabilistic approach for seismic risk assessment based on vulnerability functions. Application to Barcelona*

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In order to increase the seismic resilience in urban zones, it is necessary to perform the following three assessments: 1) assessment of seismic hazard; 2) assessment of seismic vulnerability and; 3) assessment of seismic risk.

### Summary

This research line has been mainly developed with the collaboration of members of a multidisciplinary team: Josep de la Puente, Armando Aguilar, Marisol Monterrubio, Otilio Rojas, and Octavio Castillo.

### Objectives

Contribute to increase the knowledge about methodologies and data associated to the assessment of seismic hazard, seismic vulnerability and seismic risk.

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