



**SCIENTIFIC.
ADVANCED.
OPEN ACCESS.**

THE INSURANCE CHALLENGE

Creating risk models internally can lead to lower solvency capital requirements, but it is expensive and oftentimes impractical for many small to mid-sized insurers. The correctness of risk assessment does not only lead to correct pricing of premiums for policyholders but also leads to profitability for the insurers. For more specific risk assessment such as earthquakes, correct pricing of premiums is even more challenging.

GEM

GLOBAL EARTHQUAKE MODEL FOUNDATION
a world resilient to earthquakes

CONTACT US

GEM Foundation
Via Ferrata 1 27100
Pavia, Italy
+39 0382 5169865

info@globalquakemodel.org
www.globalquakemodel.org

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GEM will provide communities with a great opportunity to strengthen their capacity to respond to disasters, invest in disaster reduction and therefore make themselves stronger and more resilient.

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Public Sponsor

(Reserved space for partner quote)

OUR TRACK RECORD

- 1** Fruitful relationship with insurers and reinsurers since 2009
- Successful partnerships with insurance companies on hazard modeling using the OpenQuake engine e.g. Hannover Re and FM Global
- 2**
- 3** Open approach in tools development and model verification including open access of hazard, exposure and vulnerability datasets

BENEFITS

Take the lead in further developing the following:

The OpenQuake engine • Hazard datasets (*Active Faults Database, Regional and National Earthquake Catalogues, Strong Motion Database*) • Seismic Hazard Models • Global and Local Vulnerability Functions • National, Regional and Global Exposure Models • Risk Metrics at the Global Scale

Have full access to our capacity development activities and technical support:

Reserved place in training workshops on seismic hazard and risk modeling and other events • Full scientific and IT support

JOIN US

Support high quality data and tools sharing on free, open and transparent platform

OUR SOLUTIONS

GEM offers custom software tools, datasets and specialized technical services to help insurance companies – big or small – to overcome these limitations.

We developed the OpenQuake engine - a state-of-the-art computational software for earthquake hazard and risk assessment for the benefit of the public.

And made our software, associated tools and selected datasets publicly available via our websites: platform.openquake.org & www.globalquakemodel.org

SERVICES

-  Development of customized seismic hazard and risk models; and tools for integration with other in-house tools
-  Help understand existing hazard and risk models
-  Production of tailor made sets of stochastic event and/or ground motion fields
-  Certification - GEM Certified model - leverage the GEM brand
-  Provision of full scientific and technical support