

# CHINA MODEL

v2022

The China model has been developed by GEM using public sources of information, such as past seismicity, and geodetic and geologic data for the hazard component, combined with exposure and vulnerability data to create the risk model.

The hazard component incorporates both faults and area sources. Earthquake occurrence rates on active faults are based on a new tectonic block model derived from the joint inversion of geodetic and geologic data.

The risk model provides estimates of risk to residential, commercial and industrial buildings using GEM's vulnerability models appropriate to Chinese construction practice. GEM has also developed an exposure model that can be used to estimate total losses to the building stock in addition to portfolio losses.

GEM extensively collaborated with its private and public partners to test and validate the model against industry standards in order to produce a new model that represents GEM's view of risk.

## GEM's commitment to public good

As part of GEM's products and services strategy, GEM is offering value-added products for a fee such as the China Model. These value-added products will also be available for free for public-good, non-commercial applications. In turn, the revenue generated from product or services fees will be reinvested to maintain GEM's core capabilities, with an emphasis on providing support to developing countries.



## LICENSING INFORMATION

Available via the following platforms:

### Nasdaq Risk Modelling for Catastrophes

<https://www.nasdaq.com/solutions/global-earthquake-model-gem>

### Verisk Touchstone

<https://www.air-worldwide.com/contact/purchasing-and-licensing>

