

## GEM-SARA Workshop on integrated risk assessment

13<sup>th</sup>-15<sup>th</sup> May 2015, Lima - Peru

### Description

In the framework of the South America integrated Risk Assessment (SARA) project, the GEM Foundation is supporting the development of a regional model for calculating earthquake losses under uniform standards and methodologies. This workshop is conceived as an opportunity to communicate and share the results so far obtained in SARA, present the tools developed by the GEM Foundation for seismic hazard and risk assessment, develop practical exercises, identify the regional needs on seismic risk management and discuss the information required to develop risk management strategies.

### Goals of the workshop:

- Presentation of activities carried out in the region.
- Presentation of the risk products (models, datasets, tools and RMTK).
- Presentation of tools for developing seismic risk mitigation programs and emergency plans.
- Perform seismic hazard and risk calculations using the OpenQuake-engine

### Wednesday, May 13th 2015

9:00 - 9:15	Welcome by CENEPRED (María Mercedes de Guadalupe Masana García)
9:15 - 9:30	Presentation of context and agenda
9:30 - 11:00	Risk activities in Peru (CENEPRED)
11:00 - 11:30	Coffee break
11:30 - 12:00	Presentation of SARA (Hazard, Risk and Integrated Risk)
12:00 - 12:30	Sharing knowledge - Introduction to SARA-Wiki and OpenQuake-platform
12:30 - 14:00	Lunch
14:00 - 14:30	Exposure and vulnerability modelling in Antioquia
14:30 - 15:00	Exposure and vulnerability modelling in Chile
15:30 - 16:00	Working plan: exposure and vulnerability modelling in Venezuela
16:00 - 16:30	Coffee break
16:30 - 17:30	Presentation of the capabilities of GEM and OpenQuake using a particular case study

### Thursday, May 14th 2015

9:00 - 9:15	Presentation of agenda
9:15 - 10:00	Procedure for calculating earthquake losses
10:00 - 10:30	Supporting tools for Vulnerability and Exposure development
10:30 - 11:00	Coffee Break
11:00 - 12:30	Preparation of the input models
12:30 - 14:00	Lunch
14:00 - 14:30	Presentation of an OpenQuake-demo
14:30 - 17:00	Running calculations using the OpenQuake-engine

**Friday, May 15th**

**2015**

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| 9:00 - 9:15   | Presentation of the agenda                                   |
| 9:15 - 9:45   | Introduction to the integrated risk concept within OpenQuake |
| 9:45 - 10:15  | Demo of the Integrated Risk Toolkit and Webtools             |
| 10:15 - 10:45 | Coffee break   |
| 10:45 - 12:30 | Integrated risk exercise                                     |
| 12:30 - 14:00 | Lunch  |
| 14:00 - 14:30 | Presentation of the Scorecard results (GEM / CENEPRED)       |
| 14:30 - 14:45 | Presentation of the exposure results (CENEPRED)              |
| 14:45 - 15:00 | Employment of exposure results in risk assessment            |
| 15:00 - 15:30 | Presentation of the risk results                             |
| 15:30 - 16:00 | Coffe break  |
| 16:00 - 16:45 | Risk management  |
| 16:45 - 17:15 | Next steps   |
| 17:15 - 17:30 | Evaluation and wrap up                                       |