

A DECADE OF SERVING OQ ENGINE TO ANALYZE SEISMIC HAZARD & RISK TO REDUCE LOSS OF LIVES AND PROPERTIES FOR A SAFER AND RESILIENT FUTURE.





# THE OPENQUAKE 10 YEAR **ANNIVERSARY**

**WEBINAR** 

**22ND OF OCTOBER 2020** 1600 - 1730 CEST

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#### **Background**

The OpenQuake Engine is at the foundation of GEM's hazard and risk assessment capability and is a hallmark of GEM's open framework and global collaboration network. Since its first release 10 years ago, the OQ Engine has become the primary analysis tool used by a wide range of scientists and engineers worldwide for the analysis of earthquake hazard and risk at scales from site-specific and urban through to national, regional and global.

It is the engine behind the development of the global mosaic set of earthquake hazard and risk and models, and the delivery of a comprehensive global assessment of earthquake hazard and risk released in December 2018.

Here are a few examples of OpenQuake's impact:

- GEM's IT team has issued 78 releases of the OQ Engine since 2010.
- The OpenQuake Engine has been cited more than 450 times in peerreviewed studies and conference proceedings since 2014.
- GEM staff and partners have trained more than a thousand individuals in the use of OpenQuake from more than 90 countries since 2015.

## **Purpose**

To celebrate GEM's and the OQ communities' achievements in developing OQ and applying it to analyse seismic hazard and risk worldwide. To explore current capabilities and future directions in the development of the software and its applications.

## AGENDA

SPEAKERS	ORGANIZATION

Introduction and brief history	John Schneider	GEM

#### OQ Engine Hazard: past, present Marco Pagani **GEM** and future

- Working with the OQ Engine for site-specific, national and regional hazard assessment

- Seismic hazard analysis for engineering-based insurance applications

ETH Zurich

**GEM** 

**GEM** 

FM Global, USA

NRCan, Canada

EAFIT Univ. Colombia

### OQ Engine Risk: past, present and future

- Building a national risk model for Canada

- Urban Risk Assessment in Colombia

Vitor Silva

Yufang Rong

Laurentiu Danciu

Murray Journeay

Ana Beatriz Acevedo

Moderator

## SPEAKERS



John Schneider





Laurentiu Danciu



Marco Pagani



Murray Journeay



Ana Beatriz Acevedo



**Yufang Rong** 



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