

## LAUNCH OF THE GLOBAL MODEL FOR EARTHQUAKE SOCIAL VULNERABILITY AND RESILIENCE (SVR)

### Social Vulnerability and Resilience (SVR) Colombia Downscale model

**Miguel Toquica, GEM Foundation** 

Dr. Christopher G. Burton, University of Connecticut



**Community Sessions** 

# Social Vulnerability at Subnational level

- Define where the greatest need is and set priorities e.g. by deriving knowledge about
- Spatial distribution patterns at local level
- Local level policies and planning
- Monitor progress and analyze trends
- Measure effectiveness of mitigation approaches
- Inform policymakers, practitioners, and local DRR units
- Alert the public and raise awareness
- Gain funding e.g. for poverty reduction initiatives
- Represent social responsibility
- Look at the social roots of vulnerability



### Workflow: Integrated Risk Modeling Toolkit



### Dimensional Drivers of Social Vulnerability



#### **Social Vulnerability**





### Colombia: Integrated Risk Modelling in OpenQuake



### Integrated Risk Map: Economic Impact



### GEM - Global Social Vulnerability Release

Global Social Vulnerability and Resilience Maps

- 1. Social Vulnerability
- 2. Economic Vulnerability
- 3. Recovery and Reconstruction



<u>Developed</u> using Open Source tools <u>Available</u> on OpenQuake, GEM Geo-viewer, GEM Website

Capable of producing Integrated Risk maps

- 1. Social Vulnerability & AA Casualties
- 2. Economic Vulnerability & AA Structural Losses





### Thank You

www.globalquakemodel.org



