



SESSION DESCRIPTION

E4 The risk and resilience scorecard: Benchmark disaster resilience in cities

Workshop

Date: Friday, May 30, 2014

Time: 14:30-16:00

Rooms: S34-35

Language: English

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Organized by: SAI, GEM, CEDIM

OBJECTIVE

The Haitian Earthquake of 2010 and the 2013 Typhoon Haiyan in the Philippines provide poignant reminders of how damaging events adversely impact communities. A long history of human development in hazard prone areas has resulted in increased susceptibility of populations to their adverse effects.

In essence, disasters are not wholly the product of the physical event. Rather, they are the outcome of the interaction between the earth's biophysical systems, the engineered environment, and the social conditions inherent to particular places. The degree of impacts suffered following an earthquake will depend not only on the extent of damages sustained, but also on the capacity of communities to reduce their impact potential and facilitate a swift recovery with little or no outside assistance.

Indicators and indices are increasingly being recognized as useful tools for risk-related policy development, communication, and decision-making in complex and multidimensional realities. They are often applied for the measurement of factors within social systems that create the potential for harm or loss or the ability to recover from a damaging event. However, the use of indicators may invite difficulties in identifying proper remedial action for disaster risk reduction.

To address these caveats, the purpose of this workshop is to discuss a multilevel city resilience scorecard that is being developed jointly by the Global Earthquake Model (GEM), the Center for Disaster Management and Risk Reduction Technology (CEDIM), and the South Asia Institute (SAI). It is a self-evaluation tool that makes use of primary source data to empower stakeholders to quantitatively assess resilience parameters based on data that is derived using a bottom-up and context specific approach at sub-city levels. It provides a starting point to incorporate societal and institutional factors from city representatives to achieve a holistic understanding of risk. City governments are enabled to benchmark their level of resilience and to keep track of their progress towards natural hazards resiliency, improve their mitigation activities and mainstream policy implementation.

OUTCOMES

Participants will leave the workshop session with:

- Awareness of multi-dimensional preconditions of resilience in a city environment
- Knowledge of how resilience can be benchmarked and traced over time
- An understanding how urban resilience to natural hazards can be increased from the bottom-up through participatory assessment tools to foster decision-making
- Hands-on training using a scorecard approach to assess cities resilience



METHODOLOGY

Facilitators *Johannes Anhorn, Research Associate, South Asia Institute, Heidelberg University, Germany*

Bijan Khazai, Senior Research Scientist, Center for Disaster Management and Risk Reduction Technology, Karlsruhe Institute of Technology, Germany

Christopher G. Burton, Senior Scientist, GEM Foundation, Pavia, Italy

14:30 - 14:40 The facilitators will provide a short presentation on the proposed objectives and the workshop agenda

Christopher G. Burton, Senior Scientist, GEM Foundation, Pavia, Italy

14:40 – 14:50 The session will begin with a presentation on the background of the multilevel city resilience scorecard approach and explore how it addresses aspects of urban resilience along six themes derived from the Hyogo Framework for Action (HFA).

Bijan Khazai, Senior Research Scientist, Center for Disaster Management and Risk Reduction Technology, Karlsruhe Institute of Technology, Germany

14:50 – 15:20 Participatory implementation of the scorecard using interactive tools and real-time visualization of results

Johannes Anhorn, Research Associate, South Asia Institute, Heidelberg University, Germany

15:20 – 15:50 Participants will split up into three working groups dealing with different topics and guiding questions on operationalizing the scorecard as an instrument to benchmark resilience in cities

- 'Providing Context' – Customization of the scorecard for respective cities
- 'Analyzing Gaps' – Areas of opportunity for the scorecard approach
- 'Going Deep' – Multi-level assessment of resilience

15:50 – 16:00 Wrap up of discussions by group rapporteur

Further recommended reading

The GEM Integrated Risk and Social Vulnerability Project:

<http://www.globalquakemodel.org/what/physical-integrated-risk/socio-economic-vulnerability>
