



Urban Seismic Risk Index (USRi) and Disaster Risk Management Index (DRMi)
Pilot Testing in Metropolitan Manila

Methodology Meeting
February 17-19, Seeheim, Germany
Summary Report

With the purpose of integrating a system of risk reduction and risk management indicators at the megacity level with the Cross-Cutting Capacity Development (3cd) Program, a group of experts from EMI, the Pacific Disaster Center (PDC), the Institute of Environmental Studies IDEA at Universidad Nacional de Colombia-Manizales, the International Center of Numerical Methods in Engineering (CIMNE) of the Technical University of Catalonia (Barcelona team), and Karlsruhe University in Germany gathered on February 17 and 19, 2006, in Seeheim, Germany, to evaluate and develop an approach to successfully implement and test the Indicators methodology¹ in the megacity environment. The Indicators methodology is planned to be tested in EMI's partner city of Metro Manila as a tool to promote risk communication and development of stakeholder ownership and mainstreaming of disaster risk management/disaster risk reduction.

A comprehensive Urban Seismic Risk Index (USRi) that incorporates not only the expected physical damage, the number and type of casualties, and the economic losses, but also looks into the social fragility and lack of resilience at the community level will be constructed for the entire Metro Manila region.

Similarly, a Disaster Risk Management Index (DRMi) to measure performance and effectiveness will be implemented, looking into four public policies. The policies include the identification of risk, risk reduction, disaster management, and governance and financial protection. This index provides a qualitative measure of management based on predefined benchmarks.

This indicators system for megacities will be promoted as a risk communication tool aimed at facilitating the exchange among different stakeholders, assisting policy decision makers and monitoring the effectiveness of specific risk reduction options.

¹ The methodology has been tested as part of the Institute of Environmental Studies - IDEA Indicators project - which was developed in cooperation with the Inter-American Development Bank (see <http://idea.unalmz.edu.co>).

Through this planning workshop in Seeheim, consensus was reached on the general approach and specific actions that will be needed to integrate the Indicators System within the 3cd Program and pilot test it in Metropolitan Manila. See www.pdc/emi - DRM Library and www.earthquakesandmegacties.org for details on the methodology and implementation process.

A work plan for the implementation of the methodology in Metro Manila, including tasks and schedule of implementation was produced (see attached).

For more information contact Dr. Khalid Bouzina, Project Manager khalidb@pacbell.net

This activity is sponsored by the UNDP/BCRP and the ProVention Consortium in collaboration with EMI and the Pacific Disaster Center (PDC) under the recently subscribed strategic partnership agreement (one year preparatory assistance phase – OUTPUT 3.3) and will be jointly undertaken with our local counterparts the Philippine Institute of Volcanology and Seismology (PHIVOLCS), the Metropolitan Manila Development Authority (MMDA) and the three pilot cities of Makati, Marikina and Quezon.

Meeting Participants

1. Alex Barbat, CIMNE-Technical University of Catalonia, Spain
2. Fouad Bendimerad, EMI and Kobe University, Japan
3. Khalid Bouzina, EMI, California
4. Omar D. Cardona, IDEA-National University of Colombia, Manizales
5. Liliana Carreño, CIMNE-Technical University of Catalonia, Spain
6. Jeannette Fernández, EMI and PDC, Hawaii
7. Shirley Mattingly, EMI and PDC, Hawaii
8. Friedemann Wenzel, University of Karlsruhe, Germany

SCHEDULE OF IMPLEMENTATION IN METRO MANILA - 2006

Activity	Feb	Mar	Abr	May	Jun	Jul	Aug	Sep
3cd to BT →CP + Eq. Scenario	xxxx							
BT Checklist + Guide	xxxx							
Indicators FG FB+TF work on the methodology	xxxx	Xx						
Interviews by TF + Secretariat in MM		xxx						
Feedback by TF+FB		xxx						
First Run by BT			xxxx					
Team Analyses the Results			xxxxxxx					
PIT & In house indicators			(21-23)Apr					
MM Fieldtrip + Indicator				(20-22)May				
Customize & Re-Run + add two cities KB & LC					xxxxxxx	xxx		
Concluding Report						xxxx	xxxxxx	xxx
Final meeting								(11-12)Sep

Key:

BT: Barcelona Team
 CP: City Profile
 FG: Focus Group
 FB: Fouad Bendimerad
 TF: Tony Fernandez (EdM team4)
 PIT: 3cd Program Implementation Team
 KB: Khalid Bouzina
 LC: Liliana Carreño