

Los Angeles International Earthquake Conference
and
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Mainstreaming Disaster Risk Reduction in Megacities

Fouad Bendimerad, Ph.D., P.E.
fouadb@emi-megacities.org
Chairman, EMI

International scientific organization dedicated to urban disaster risk reduction
A member of the U.N. Global Platform for Disaster Reduction



A scientific Organization with a Specific Purpose

To advance the knowledge, experience, and practice of disaster risk reduction in megacities and fast growing metropolises

Organized as a not-for-profit organization in the Philippines

Operates Globally

Cluster Cities Project Partners

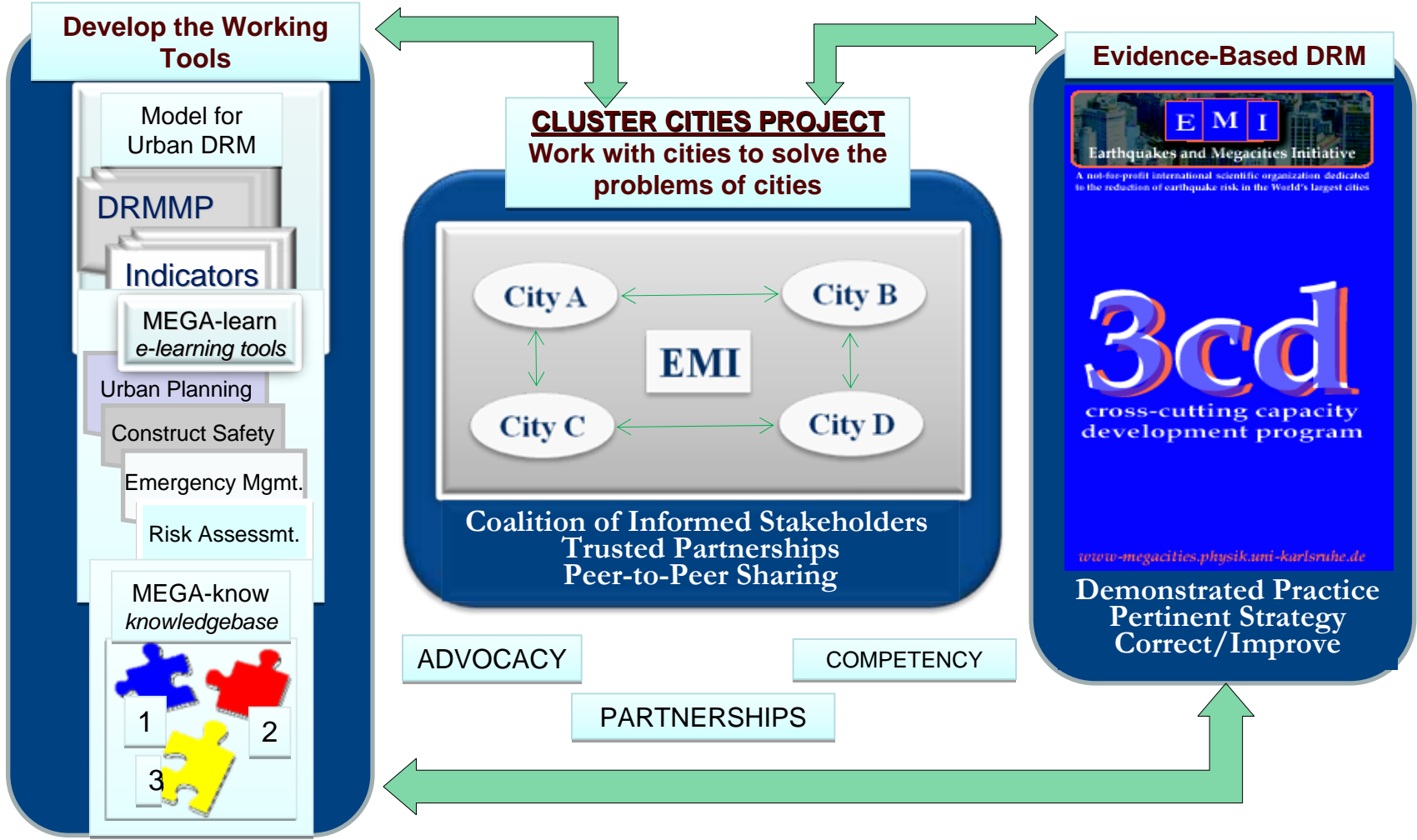
Global network of partner institutions (academic and professional organizations)



20 city partners and 2 observers:

- **East Asia:** Kobe, Manila, Shanghai, Seoul, Tianjin, Jakarta
- **South & Central Asia:** Mumbai, Dhaka, Kathmandu, Tashkent, Beijing
- **Americas:** Bogota, Los Angeles, Mexico, Quito, Lima
- **Euro-Mediterranean:** Naples, Istanbul, Tehran, Cairo
- **Observers:** Algiers, Amman
- Partnership with 4 local government organizations (UCLG, METROPOLIS, CITYNET, ICLEI) - RICS, PDC
- Member ProVention Consortium
- World Bank GFDRR Partner

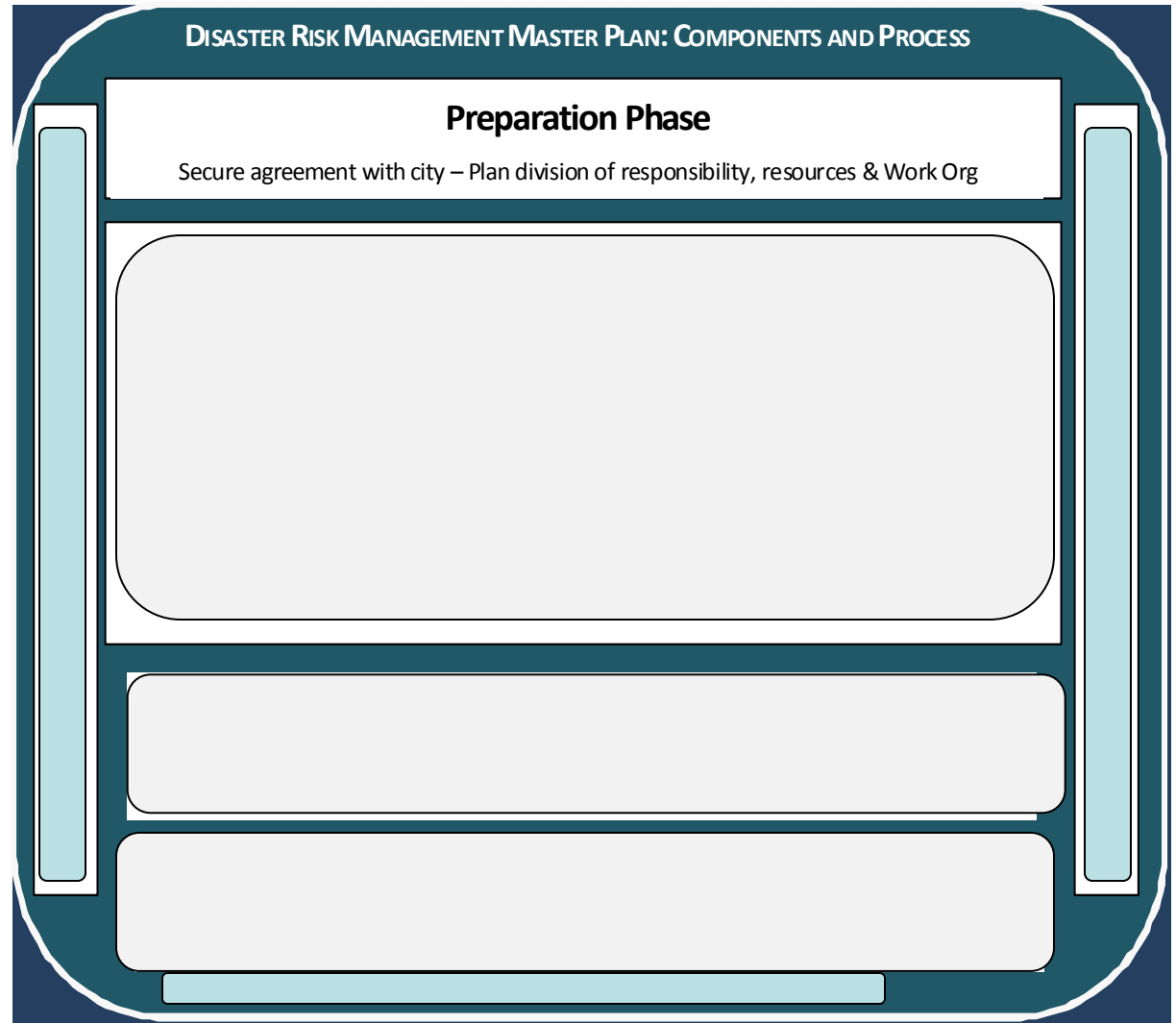
EMI Approach and Programs



3cd Program

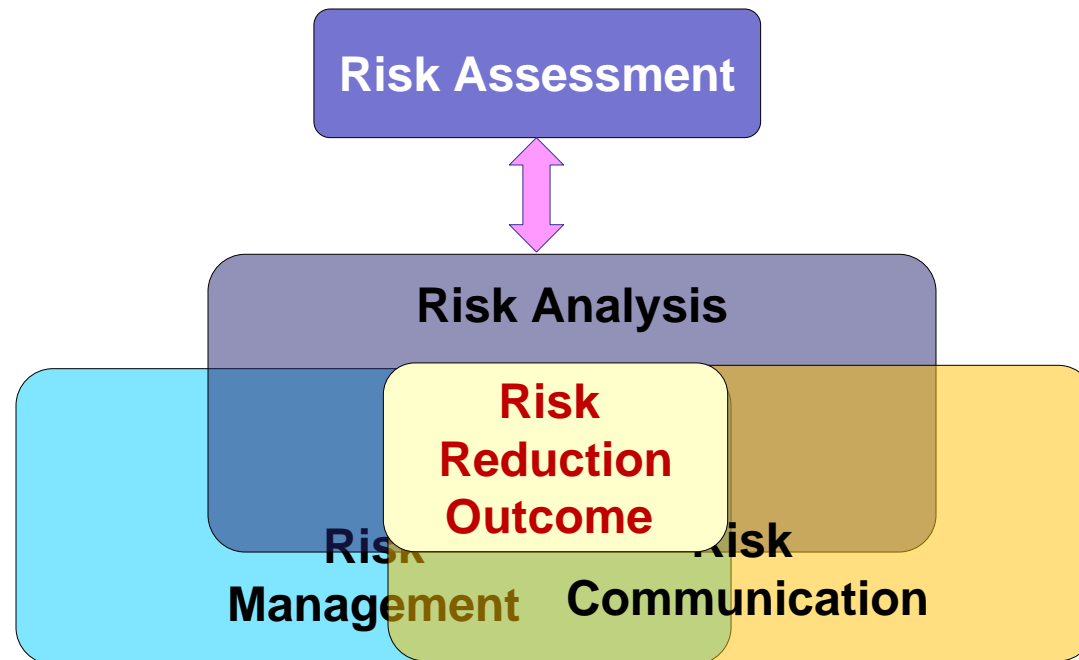
DISASTER RISK MANAGEMENT MASTER PLAN “DRMMP” MODEL

DRMMP is
EMI's
analytical
model for
linking DRM
to a city's
physical and
urban
development
planning
strategies



FROM RISK ASSESSMENT TO RISK REDUCTION

Risk assessment by itself does not necessarily lead to risk reduction. Planning tools must be introduced to enable DRR



- ✓ **IWO 1** – Disaster-Resilient Land-Use Planning –
 - Update of land-use plans
 - Urban Redevelopment of High-Risk Area in Makati
- ✓ **IWO 2** – Improving the legal and Institutional arrangements for DRM Delivery – Institutional Reinforcement
- ✓ **IWO 3** – Training and Capacity Enhancement for DRM
- ✓ **IWO 4** - Resource Identification and Mobilization
- ✓ **IWO 5** – Development of Information and Communication Tools for Risk Communication and Planning

Kathmandu DRMMP IWO's

- ✓ **IWO 1** - Strengthening of institutional and organizational arrangement for DRM in KMC
- ✓ **IWO 2** – Support the development of a risk-sensitive comprehensive land use plan for the Kathmandu Valley
- ✓ **IWO 3** – Technical and managerial support to KMC in developing a process for building code implementation
- ✓ **IWO 4** - Technical and managerial support to KMC and NSET in organization of ward level disaster management capability
- ✓ **IWO 5** - The development of KMC-specific DRM risk communication and information technology tools

From Study – to Planning – to Project

- ✓ The project moved from Planning to Project Definition level through a grant from the German Foreign Affairs Office in partnership with the German Committee on Disaster Reduction (DKKV)



A Project Funded by:
The German Federal Foreign Office



Local Partners

For Metro Manila

- ✓ Metro Manila Development Authority
- ✓ Makati City Government
- ✓ Phil. Institute of Volcanology and Seismology (PHIVOLCS)
- ✓ National Disaster Coordination Council (NDCC)

For Kathmandu

- ✓ Kathmandu Metropolitan City (KMC)
- ✓ Kathmandu Valley Town Planning Committee
- ✓ National Society for Earthquake Technology-Nepal (NSET)



Four Project Work Outputs (IWO's)

- IWO 1: Kathmandu – Development of Risk Sensitive Land Use Plan
- IWO 2: Kathmandu – Structuring and Empowering a Disaster Management Unit at KMC
- IWO 3: Makati City, Metro Manila –Risk Reduction through Urban Redevelopment
- IWO 4: Training on a) Risk-Sensitive Land-Use Planning and b) Local-Level Disaster Management.

Project Phases

The project is structured into two phases, covering a period of two years (2007-2009):

- ✓ Phase 1: Diagnosis and Work Planning
 - November 2007 – February 2008

- ✓ Phase 2: Methodology Development and Implementation
 - July 2008 – December 2009

Implementation Work Output 1: Kathmandu LUP

Formulation of a risk-sensitive land use plan for Kathmandu

- ✓ Planning approach and plan development
- ✓ Supportive social and economic actions to reduce vulnerability
- ✓ Advocacy campaign on enforcement of land use principles
- ✓ Zoning ordinance
- ✓ Strengthening of enforcement and coordination processes
- ✓ Integration of stakeholders' input



Implementation Work Output 2: Kathmandu

Strengthening of organizational and operational disaster management capabilities of KMC.

- ✓ Develop organizational structure, its vision, mission and operating procedures
- ✓ Develop related city ordinances to define its legal and institutional framework
- ✓ Build internal competencies through specialized training
- ✓ Develop its core DM functions (e.g., Basic Plan)
- ✓ Develop its ancillary functions (e.g., Departmental Plan)
- ✓ Stakeholders identification and engagement

Implementation Work Output 3: Makati City-Urban Redevelopment

Pilot Project for vulnerability reduction through urban redevelopment

- ✓ Strategic Planning
- ✓ Selection of High Risk Area
- ✓ Site Analysis
 1. Social and economic vulnerability
 2. Physical vulnerability
 3. Capacity analysis
 4. Emergency management
 5. Land use
 6. Transportation and mobility
- ✓ Redevelopment Planning
 1. Master development/Physical planning of the site
 2. Community action planning for socio-economic development



Implementation Work Output 3: Makati City-Urban Redevelopment

✓ Urban Redevelopment Planning Principles

1. Physical and Social Vulnerability Reduction
2. Economic betterment and mobility
3. Provisions for Emergency Management
4. Adherence to Existing National Laws
5. Sustainable Planning and Design
6. Community Involvement
7. Minimal Displacement

Figure 5. Overall Project Approach



Implementation Work Output 4: Competency Building for Sustainability

Two specialized training and competency building activities:

1. Risk-sensitive land use planning (Metro Manila)
2. Local-Level Disaster Management (Kathmandu and Metro Manila)

Training Needs Analysis demonstrates low-level of knowledge, and even lower level of skills



Important Considerations

- ✓ Both Kathmandu and Metro Manila have gone through a multi-year effort to develop a DRMMP for the city
- ✓ The selected IWO's were driven from a participatory process and represent a consensus
- ✓ Both KMC and Makati are politically and institutionally committed to these projects
- ✓ DRR projects require a significant amount of planning and coordination with fully multi-disciplinary integrated teams. It is a long term endeavor
- ✓ DRR should be viewed as a long term participatory process when risk assessment is only the initial step

End

Thank You

For more information, visit:

<http://www.emi-megacities.org>