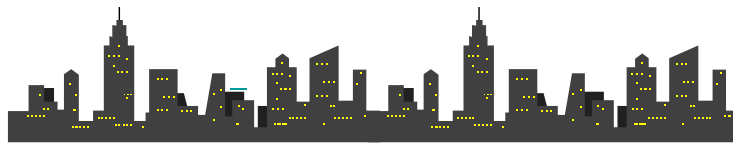
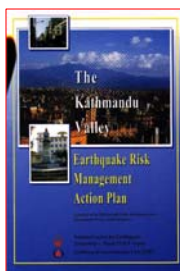


Urban Disaster Risk Management



Asian Urban Disaster Mitigation Program (AUDMP)



1995 - 2005
USAID Support

Program Goal

Reduce the disaster vulnerability of urban populations, infrastructure, critical facilities and shelter in 10 targeted countries in Asia



Urban Disaster Risk Management Team

The UDRM Team strives to build on the experiences gained and lessons learned from implementation of AUDMP since 1995. It has identified five focus areas for its activities in the future.

Thrust Areas



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Planning and Building Safer Cities:
A Comprehensive Approach

Public Awareness Campaigns:
A Partnership Approach

Emergency Management and Response
Planning for Cities: A Multi-Sectoral Approach

Knowledge Development and Capacity Building:
A Holistic Approach

DRM integration in Urban Governance
through CBDRM institutionalization



Planning and Building Safer Cities: A Comprehensive Approach

- Hazard Assessment
- Vulnerability/capacity assessment
- Risk assessment
- Mitigation action planning
- Developing city based platforms
- Technical guidance for Building code compliance and Building permit process
- Risk based Land use planning
- Promotion of CBDRM practices in the urban context
- Projects and programs to treat the Risk

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Emergency Management and Response Planning for Cities: A Multi-Sectoral Approach

- City level early warning systems
- Emergency Response planning
- Development of SOP/EOC
- Incident command system training
- Improvement of city level emergency services
- First responder training.
- Development of neighborhood networks to assist formal emergency response systems



Knowledge Development and Capacity Building: A Holistic Approach

- Development of case studies
- Training and capacity building(EVRC,UDM, FDRM, Governance and Risk management, Risk assessment)
- Skill training(Masons, carpenters etc)
- Networking with Urban risk management stakeholders



Public Awareness Campaigns: A Partnership Approach

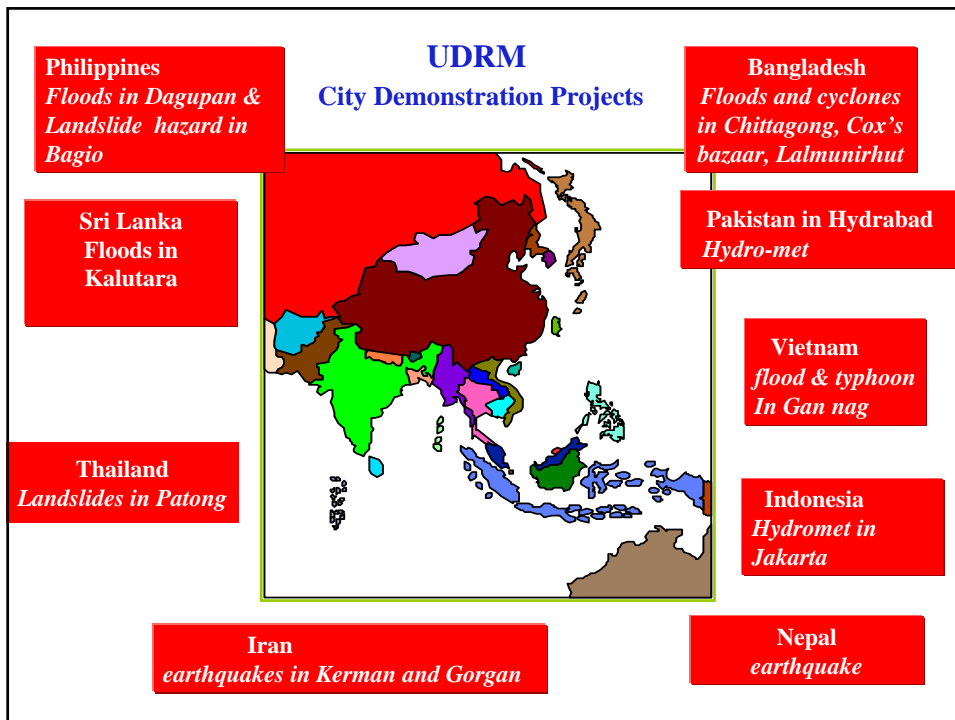
- Development of manuals, information products
- Primer for DRM
- Web based products, audio-visual products
- City level disaster safety day events
- Public awareness campaigns
- School programs



DRM integration in Urban Governance through CBDRM institutionalization

- Development of good practices
- Development of strategy for mainstreaming DRM at local government level
- Policy formulation and implementation of mandatory requirements
- Technical assistance for developing techno-legal tools
- Formal training courses to promote good governance







**PROGRAM FOR HYDRO-METEOROLOGICAL
DISASTER MITIGATION IN SECODARY CITIES IN ASIA**


Program duration - 2005 - 2009

Program Goal
Reduced vulnerability of urban communities through enhanced preparedness and mitigation of hydro-meteorological disasters in South and South East Asia




USAID
FROM THE AMERICAN PEOPLE





Country	Lead institution	Targeted City
Bangladesh	Bangladesh Disaster Preparedness Center (BDPC)	Chittagong
Pakistan	Aga Khan Planning and Building Services (AKPBS)	Hyderabad
Philippines	Centre for Disaster Preparedness (CDP)	Dagupan City
Sri Lanka	Lanka Jatika Sarvodaya (SARVODAYA)	Kalutara
Vietnam	Centre for International Studies and Cooperation	Danang





Program for Regional Capacity Enhancement for Landslide Impact Mitigation (RECLAIM)




- National capacity building in six landslide prone countries (Bhutan, India, Indonesia, Nepal, Sri Lanka, Thailand) for landslide impact mitigation by promoting dialogue between decision-makers and professionals

Activities:

- Kick-off meeting in BKK in Sept 2004
- International Seminar in Jun 2005 in Colombo
- 1st Regional Training in Bandarawela in Jun 2005
- 2nd Regional Training in Bhutan in Mar 2006



Earthquake Vulnerability Reduction in Cities

- Demonstration projects in cities in Bangladesh (Dhaka, Chittagong, Sylhet) on Hazard and vulnerability mapping, Contingency planning and Training and advocacy.
- Demonstration projects in Kathmanu valley and Bandung, Indonesia.
- Course on Earthquake Vulnerability Reduction for Cities (EVRC)
- Rapid assessment after earthquakes in Gujarat India, Pakistan
- Advocacy for DRM at city level and city level platforms.



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Technical Assistance for UNDP Iran



- Technical assistance to strengthen national and regional capacities for disaster risk management
- 8 workshops, 2 study tours & 2 regional seminars
- 1 Study tour and 7 workshops have been finished



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Technical Assistance for CARE Bangladesh

- Strengthening Household Abilities for Responding to Development Opportunities (SHOUHARDO)
- Technical inputs on demonstration projects in municipalities
- Information and networking activities
- Capacity building
- Research
- Promotion of safer communities
- Funded by USAID Bangladesh



SHOUHARDO is a five-year (2004-9) Development Assistance Project (DAP) implemented by CARE-Bangladesh with funding from USAID



SHOUHARDO aims to reduce vulnerability of the poorest communities in Bangladesh and increase livelihood options for them

ADPC provides technical inputs on

- **Demonstration projects in municipalities**
- **Information & networking activities**
- **Capacity building**
- **Research and promotion of safer-communities**



Primer on the Disaster Risk Management in Asia

Objectives

To share the advances in disaster risk management in Asia and serve as a well-resourced comprehensive reference document which could be used by professionals and practitioners for understanding disaster risks in their own geographical, social, economic and cultural context

Structure of the Primer

Three volumes

- Volume I: The rationale and theoretical context for a holistic approach to disaster risk management (USAID support) - <http://www.adpc.net/udrm/primer/primer-vol1.htm>
- Volume II: The management of slow onset flood (UNDP support)
- Volume III: Seismic hazards



Sustainable Capacity Building on Urban Disaster Mitigation in Asia using Information Technology Applications (CASITA)



Phase I: April 2003- Mar 2004, Phase II: Jan 2005- Dec 2006, with funding support from EuropeAid, under Asia IT&C program

Partner Organizations

The International Institute for Geo-information Science and Earth Observation, ITC, The Netherlands and Bonn University, Germany

Objectives:

- To build knowledge in Asia on modern urban disaster mitigation tools & methods through the inclusion of relevant and up-to-date disaster management components in the university curricula of urban-planning courses in several Asian universities and training institutes



Naga city-Flood hazard(5 year return) and land use



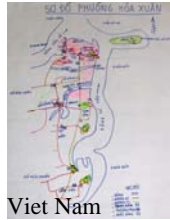
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Flood hazard(20 year return) and zoning. San Carlos



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Program Outputs: Risk Maps



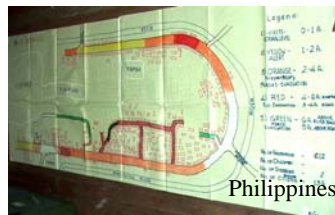
Viet Nam



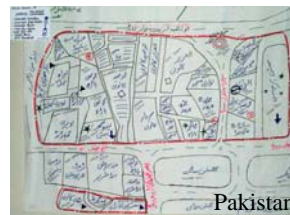
Bangladesh



Sri Lanka



Philippines



Pakistan



Program Outputs: Networking

Study tour to Dagupan



Disaster Awareness Day in Kalutara



- Study tour to Dagupan City
 - PROMISE (Oct. 2006)
 - CARE Bangladesh (Sept. 2007)
- Study tours to Danang by DIPECHO (Aug., Sept. & Oct. 2007)
- Disaster Awareness Days
 - Dagupan: July 16
 - 2006
 - 2007
 - Kalutara: Dec. 26, 2006

PROMISE Program Outputs

- Community-based disaster risk management (basic and ToT)
- Community-based emergency response course
- Community Emergency Management Course (Dagupan and Danang)
- Safer Construction Training (Danang)
 - Homeowners
 - Masons and Carpenters
 - Local Officials
- Resource Mobilization (Hyderabad)
- Governance and Disaster Risk Reduction (Chittagong)



Safer Construction Training in Danang

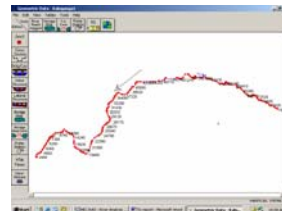


Program Outputs: End-to-End Early Warning Systems

- Flood markers, indigenous alert device (Dagupan)
- Training on reading rain gauges and flood markers (Dagupan)
- Flood disaster exercises (Dagupan City, 4 of 8 barangays)
- Hydrologic modeling of Kalu River by Univ. of Peradeniya



Local flood alert device in Dagupan



Modeling with HEC-RAS 3.1.1



PROMISE Program Outputs

IEC Materials with Safety Messages



PROMISE Program Outputs

Brochures on the Country Projects



Online and Print Publications

- *Disaster Mitigation in Asia* monthly e-newsletter (Issue 51)
- Safer Cities case studies (18)
- Primer I: *Disaster Risk Management in Asia*
- Primer II: *Integrated Flood Risk Management in Asia*
- Next:
 - Primer III: Seismic Hazards
 - Urban disaster mitigation and preparedness guidebooks



Suggestions for the Taskforce

- Advocacy for Mainstreaming DRM at local level
- Development of Resource pool/knowledge bank.
- Documentation of city level good practices.
- Catalog of DRM tools
- Asian Urban DRR conference.
- Inventory of most vulnerable cities and conduct a program in 100 selected cities in next 05 years

