

# Program for Hydro-Meteorological Disaster Mitigation in Secondary Cities in Asia

**PROMISE Online**  
www.adpc.net/v2007/Programs/UDRM/PROMISE



## Apply for this course:

Mainstreaming Disaster Risk Reduction into Local Governance

The course will raise governance issues posed by recurrent hazards and present current knowledge on streamlining disaster risk reduction into urban development.

For inquiries, email: ted@adpc.net

## Documents for Download:

- Participatory risk assessments
- Training reports
- Reports on demonstration projects
- Working Group Meeting briefing notes and presentations
- Safer Cities case studies
- Publications about PROMISE



## Visit the PROMISE Cities:

- Meet the local officials
- Interact with community members
- Observe mitigation projects



## Program Strategy

Increased adoption of private and public sector mechanisms for community preparedness and mitigation of hydro-meteorological disaster risk in urban areas of South and South East Asia in order to measurably alleviate human suffering, prevent loss of life, and reduce the potential for physical and economic damage.

## Program Objectives

1. Adoption of specific hydro-meteorological disaster preparedness and mitigation measures to manage hydro-meteorological disaster risk by stakeholders in targeted cities.
2. Increased stakeholder involvement and further enhancement of strategies, tools and methodologies related to community preparedness and mitigation of hydro-meteorological disasters in urban communities.
3. Enhanced coordination with USAID Missions to promote sustainability and ensure program activities that accord with USAID country and regional strategies.
4. Strengthened networks and regional links among relevant risk management institutions/organizations for improved application and dissemination of lessons learned.



The Asian Disaster Preparedness Center (ADPC) is an independent, non-profit, inter-governmental foundation based in Thailand. Established in 1986, ADPC is the leading regional resource center dedicated to creating safer communities for sustainable development through disaster reduction. ADPC's programs address the evolving developments in disaster risk management, with a focus on urban disaster risk management, community-based disaster risk management, disaster management systems, public health in emergencies, and climate risk management.

For further information please contact:

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# Program for Hydro-Meteorological Disaster Mitigation in Secondary Cities in Asia (PROMISE)

Reducing vulnerabilities of urban communities through enhanced preparedness and mitigation of hydro-meteorological disasters.



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## Regional and National Capacity Building

Assisting practitioners and decision-makers to prepare for long and short-term mitigation of hydro-meteorological disasters through:

- Urban governance and disaster risk reduction
- Hydro-meteorological disaster risk management and community preparedness
- Community-based disaster risk management
- Community-based emergency response



## Regional Networking and Information Dissemination

Supporting systems for sharing and exchanging knowledge on urban disaster mitigation and preparedness through:

- Working Group Meetings and other fora
- Study tours to witness good disaster management practices
- Safer Cities case studies
- Disaster Mitigation in Asia e-newsletter
- Online publication of reports



## Advocacy for Mainstreaming Risk Management in Urban Governance

Facilitating the decentralization of disaster risk management through:

- Local disaster management committees
- Advocacy for urban policy-makers to integrate risk into urban land-use planning and building by-laws
- Emergency response planning
- Legal and institutional set-up



## City Demonstration Projects

Urban communities that are subject to hydro-meteorological hazards take up a series of activities to enhance capacities for disaster preparedness and mitigation:

- Courses on community-based disaster risk management, community-based emergency response, governance and disaster risk reduction
- Participatory hazard, vulnerability and risk assessments
- Participatory identification of specific hydro-meteorological disaster preparedness and mitigation measures and action planning
- End-to-end early warning systems that involve community participation for monitoring and alerting
- Small-scale disaster mitigation projects for enhanced community-level preparedness and mitigation of hydro-meteorological events
- Community-based search-and-rescue and medical first response
- City workshops on integrating the participatory risk assessments into city disaster mitigation plans and emergency response systems
- Risk-based urban land-use planning
- Disaster safety day events and other public awareness activities
- School safety programs to assist schools to establish disaster management committees and develop disaster mitigation plans
- Developing a network of local practitioners for sharing experience and best practices



Asian Disaster Preparedness Center

# PROMISE CITIES

## Hyderabad, Pakistan



Hyderabad is the second largest city of Sindh province, and the nearest town to the largest metropolis Karachi. The city has archaeological and historical sites, and it is a center for handicraft products, good educational institutions and health facilities. It is vulnerable to floods, has a shallow water table, and 20% of its residents live in low-lying areas.

### Main activities:

- Hazard mapping and vulnerability assessment of selected communities (union councils)
- Establishment of community-level organizations for disaster risk reduction (Disaster Management Committees)
- Identification of specific hydro-meteorological disaster preparedness and mitigation measures
- Small-scale disaster mitigation projects
- Training of Search-and-Rescue teams and medical first response at community/city level
- School safety program

### Project partner:



Aga Khan Planning and Building Services, Pakistan



## Da Nang, Viet Nam



Da Nang is a dynamic city located in central Vietnam's Key Economic Zone. Situated along the World Heritage Route and possessing a beautiful coastline, Da Nang has tremendous potential for growth in tourism and economic development. The city has settlements in low-lying areas, and is highly vulnerable to urban floods and typhoons.



### Main activities:

- Hazard mapping and vulnerability and capacity assessment of selected communities (wards)
- Small-scale disaster mitigation projects
- Training on Community Based Disaster Risk Management at ward and section level
- Training of Search-and-Rescue teams and medical first response at community and city levels
- Workshop on risk-based urban planning
- Development of guidelines for safer construction
- School safety program
- Establishment of a basic Emergency Operations Center (EOC)

### Project partner:



Centre for International Studies and Cooperation, Vietnam



## Dagupan City, Philippines



Dagupan City is a sub-regional center for trade and commerce, finance, health and education services in the Northern Luzon Region. Frequent perennial floods in the city's low-lying coastal delta areas cause regular damage to public infrastructure, private property, agricultural crops, fishponds, and other urban economic activities.

### Main activities:

- Development of preparedness and mitigation plans using available information
- Vulnerability assessment of existing facilities at community level (barangays)
- Barangay level disaster preparedness and mitigation planning to reduce vulnerability.
- Small-scale disaster mitigation projects
- Development of livelihood options for hazard-prone communities
- Organization of functional barangay disaster coordinating councils
- Development of a dedicated disaster risk reduction body (Technical Working Group)
- Flood simulation exercises for pilot-testing an end-to-end flood forecasting and warning system
- Policy workshops to discuss policy changes and improvements to city ordinances
- Establishment of an Emergency Operations Center by local ordinance, development of a Standard Operating Procedures, and setting up Emergency Response teams
- Development of a city level disaster management information system
- Public awareness and advocacy campaigns
- Establishment of the city's Disaster Preparedness Day by city resolution
- School safety program
- Institutionalization of the course on urban governance and disaster risk reduction
- Developing a network of local authorities and national agencies for mainstreaming disaster risk reduction into local governance



Pilot barangay Mangin's award for excellence in disaster risk management (2008)

### Project partner:



Center for Disaster Preparedness



## Kalutara, Sri Lanka



Kalutara is a rapidly developing satellite town in close proximity to Colombo. Kalutara is prone to frequent natural disasters including riverine floods and rain-induced landslides. It was also affected by the December 2004 Indian Ocean Tsunami.

### Main activities include:

- Hazard mapping and vulnerability assessment of selected communities (electoral wards)
- Preparedness and mitigation action planning workshop at city level
- Small-scale disaster mitigation projects
- Facilitation of micro-credit schemes to reduce the economic vulnerability of poor communities
- Flood simulation model for Kalutara basin
- Establishment of an emergency response system
- Training of Search-and-Rescue teams and medical first response at community/city level
- Campaigns for raising public awareness, including observance of the national disaster safety day
- School safety program
- Institutionalization of the course on urban governance and disaster risk reduction



### Project partner:



Lanka Jathika Sarvodaya Shramadana Sangamaya



National Building Research Organization

## Chittagong, Bangladesh



The port city of Chittagong is a major center for trade and commerce, and a population density 1,191 persons/km<sup>2</sup>. It is prone to natural hazards such as cyclones, flooding, tidal surges, and rain-triggered landslides at its hillside areas.

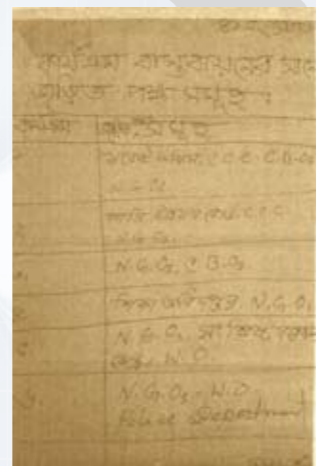
### Main activities:

- Hazard mapping and vulnerability assessment of selected communities (wards) living in hazard-prone areas
- Action planning workshop at city level
- Small-scale disaster mitigation projects
- Training of Search-and-Rescue teams and medical first response at community/city level
- Campaigns for raising public awareness
- School safety program
- Institutionalization of the course on urban governance and disaster risk reduction

### Project partner:



Bangladesh Disaster Preparedness Centre



## Jakarta, Indonesia



Jakarta Metropolitan City is the country's capital, and its economic growth in 2006 contributed more than 17% to the national GDP, and 60% of the nation's money circulation. It is very prone to floods due to excessive rainfall and flash floods along its rivers systems. Floods are often aggravated by the onset of swells that reach up to 4m, sea level rise, land subsidence, and/or high tide during full moon.

### Main activities:

- Hazard mapping and vulnerability assessment of selected communities (rukun wargas)
- Mapping of flood preparedness and mitigation projects/programs undertaken by various organizations
- Capacity-building of development agencies
- Emergency management & response planning at city level
- Development of flood early warning system at kelurahan level
- Flood emergency response drill

### Project partner:



Bandung Institute of Technology – Center for Disaster Management



## LEGEND



Flood



Storm Surge



Cyclone/ Typhoon



Drought



Landslides