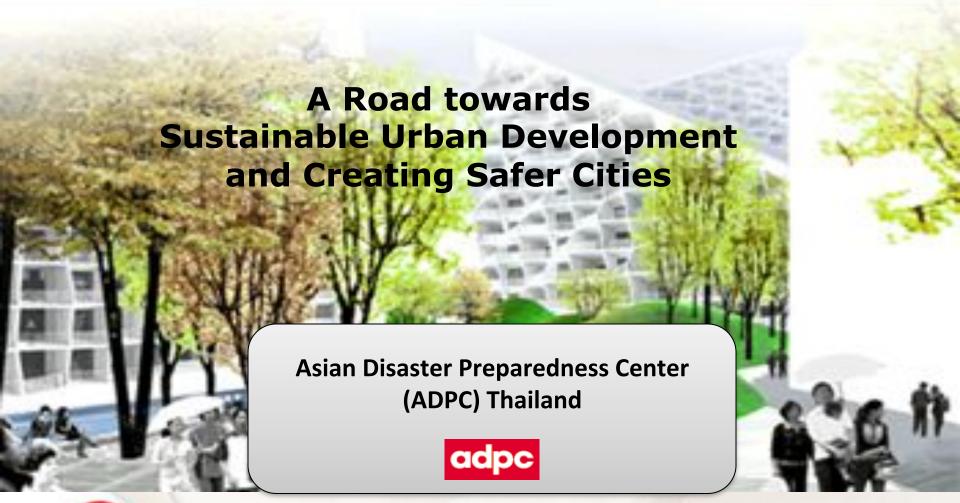
Mainstreaming DRR and Climate Change impacts in Urban Local Government





Purpose of the Presentation

- Highlight salient facts on the drivers of risk and vulnerability in urban areas
- Common Functions and services of urban local governments in Asia
- Mainstreaming DRR in to Local Government
- Open a dialogue –what steps can be adopted



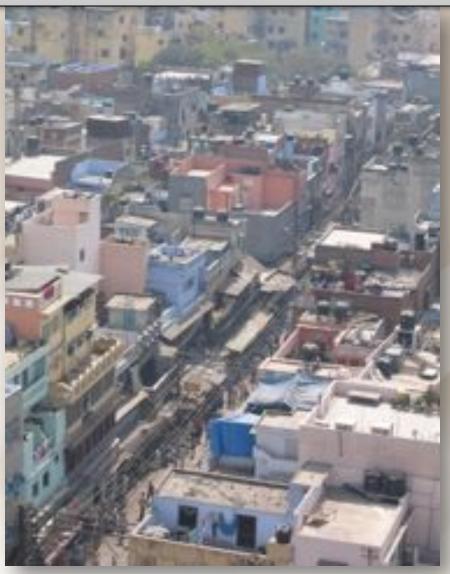
Risk Drivers

- Impacts of Climate Change
- Nature of urbanization –formal as well as informal i.e. filling flood plains, insufficient capacity of drainage systems, poor maintenance
- Weak/absence of good governance (Non compliance with the Rule of Law –building codes)
- Poverty /inequality
- Demographic factors
- Environmentally unsound/ unfriendly practices



Risk Drivers Factors contributing to Increasing vulnerability in Urban areas

Characteristics of the Urban Habitat





Nature of Settlement/Building Stock



Migration of population from rural areas due to economic reasons



Location of cities closer to hazard prone areas and its expansion



Urban Settlements frequently threatened by natural hazards and Fragile Ecosystems





Local Government Institutions

- LGs are administrative offices of an area smaller than a state or a province
- In many countries in Asia LG systems have historically evolved to a present day context
- However structure, electoral system, powers & functional responsibilities, etc of modern LG institutions vary between countries



Common Functions of Local Government



Why DRR in Cities?

- Economic losses due to disasters limit the potential urban growth and sustainable development of urban areas.
- Cities need to be proactive and should have long term programs to reduce such potential impacts taking into consideration the futuristic risk.

Objective of mainstreaming DRR at LG Level

- To empower the LGs to undertake effective measures to reduce disaster risks within the existing legal framework
- To enhance and strengthen the mandate/scope of LGs for reducing disaster risks.

Within existing legal framework ...

- LGs can
 - -formulate and implement appropriate strategies, action plans and development programs.

Such development programs can be design to reduce the disaster risks.

Emergency services – Fire, ambulance services, Search, Rescue and Evacuation

Establishment of Emergency Operation Centers (EOCs) at LG level

Establish city level platforms with all stakeholder groups

 Set up emergency service units (Fire and ambulance services, Search and Rescue, Evacuation) and expand services depending on needs

 Explore possibility of making arrangements to get emergency assistance from resourceful LG within neighborhood. More resourceful local bodies can help neighboring LGs to optimize capacity

 Organize periodic simulations and drills with assistance of responsible agencies



Waste management contd

- Popularize "Reduce, Recycle and Reuse" waste among people
- Involve urban communities and their organizations in designing, planning and implementing, and maintenance of, efficient and hygienic waste disposal (both solid and liquid) facilities

Encourage and promote more private and public sector partnerships

- Coordinate with other urban centers and cities to implement such interventions where economies of scale and other complementary benefits could be generated
- Strictly enforce existing law against haphazard dumping of waste
- Consider providing economic incentives for
- win-win solutions.



Waste management contd

- Avoid flood retention areas being used as dumping grounds
- Locate landfills away from flood prone areas
- Plan and implement ways of disposing of hazardous waste separately
- Plan to reduce un-systematic disposal of solid waste and to implement proper waste disposal means
- Explore potential benefits of converting solid waste into other products such as energy, fertilizer etc. and take advantage of globally promoted programs such as Cleaner Development Mechanism (CDM)
- Promote Cleaner Production (CP) in which reducing waste at source is possible instead of disposing at the end of the pipeline
- Promote production of compost fertilizer household and communities



Health ,Sanitation and Hygiene

- Organize immunization programs to reduce the spread of disease
- Organize awareness programs for prevention of epidemic situations for cases such as dengue, malaria and any other vector born diseases before outbreak
- Implement prevention programs for controlling outbreaks of seasonal health hazards
- Provide training to community health workers
- Organize mobile clinics, medical assistance with help of health authorities,
 NGOs etc. after monsoon seasons
- Establish better monitoring and evaluation (M&E) systems to ensure routine health and sanitation functions
- Set up maintenance units to help clean polluted water sources after flood events
- Lead public-private partnerships and campaigns to promote effective hygienic practices, and making the city free from diseases
- Strictly enforce law on hygienic and civic conditions.





Urban Services (drainage, electricity, water supply, gas etc.)

Operational Manual

- Design urban services to be hazard resistant and accommodate long term requirements
- Undertake routine maintenance of drainage facilities
- Plan alternative arrangements for continuity of services during emergencies and be prepared to activate such plans should the necessity arise
- Solicit assistance of professionals to develop guidelines for locating infrastructure away from hazard prone areas and high safety standards to urban services in hazard prone areas
- Develop emergency response guidelines for service departments for quick response and recovery
- Constitute maintenance teams for making available emergency service facilities at short notice in the event of an emergency
- Train maintenance personnel on speedy action to return services to normalcy in the event of a disaster and keep them ready and prepared to respond at the occurrence of a disaster.



Land-use Planning and Control

- Conduct multi-hazard Risk Assessment (Exposure/ Vulnerability/ Capacity- HVCA) at city level & build a risk profile to identify safer locations for development initiatives
- Identify low lying areas & promote schemes to protect natural environment as a way of retaining the flood retention capacity
- Avoid practices in mountainous areas which will destabilize the slopes such as cutting of slopes, removal of vegetation etc.
- Develop a city level spatial database to monitor development in hazard prone areas
- Develop zoning regulations and strictly follow zoning guidelines
- Avoid reclamation of flood retention areas

Deal with environmental issues connected with slums in consultation with residents in poor settlements

- Maintain parks, recreation facilities etc. which can be used during emergencies for evacuation and setting up camps for Internally Displaced People (IDPs).
- Land use planning measures to overcome health and sanitation issues



Budget allocation, tax collection and investment promotion

- Introduce new tax regulations, tariff systems etc. for hazard prone areas to discourage development in unsafe areas
- Reduce tax and improve services to encourage development in safer areas
- Allocate a percentage for DRM initiatives from the annual budget process
- Allocate funds to other city departments for the training of officials and purchase of emergency response equipment
- Develop city-wide programs to encourage and mobilize the support of the private sector, NGOs, and civil society organizations to undertake DRM activities
- Allocate an annual budget for developing action plans, contingency plans etc. and conduct regular simulations, drills etc.



Welfare services during emergencies (food, nutrition and other non-food items, welfare activities etc.)

- Develop a database of LG level NGOs, civil society organizations, private sector etc. to obtain assistance and encourage participation in welfare activities during disasters
- Encourage Red Cross Societies and civil society organizations to undertake regular programs involving volunteers to improve response capacity
- Organize regular city level meetings with NGOs, CBOs, and civil society organizations before monsoon seasons to ensure supply of resources and engagement in welfare activities during disaster events
- Identify evacuation centers and improve the facilities
- Involve Girl Guides, Scouts, Red Cross volunteers etc. in first aid and first medical response during emergencies
- Develop a welfare/emergency fund to assist victims during disasters through volunteer contributions (not only in cash but also material and in kind contributions).



Steps proposed for mainstreaming DRM for Urban Local Authorities

- Understand the Hazard environment, vulnerability and risk due to natural disasters as per historical records
- Extend the extent of assessment to understand the futuristic risk environment.
- Obtain the assistance of professional bodies / mandated national level agencies to conduct HVCA
- Identify needs in terms of new policies and mandates, legal & institutional arrangements, resources, information dissemination and awareness creation and ensure external assistance

By Laws

Overinggine Wade Steen Wijapidel de Sdina Minister of Local Occumentary and Chief Minist Provincial Council.

Office of the Clief Missister Galle August 2010

Schodule

laws on the Management of Disserves and Cataotrophic Niturio

- These bylanes are defined as by lanes on the management of disasters and conservables estudions in the Managinal Council area of Managin.
- 2. These by laws are ensured with a view to minimizing, the disorders and examineptic similaries that might arter in the same state the substrate of the Minimized Consult in Manta, providing infinit to flow with on holds to be the minimized or the same state of the minimized consult are not incorrectioned and to prepare the people in the Mantajard Consult are not incorrectioned and to prepare the people in the Mantajard Consult are not been substrated to their service when migrate to that error is support beforehand, capabilities to being such distances or automorphic distincts and in previole for all matters connected distances and in previole to of matters; connected and the contract of the previole of the minimized constraints.
- The hydron shall not be considered as diluting the force of the provisions of a



අතුරු විවේස්ථා මාසර මහා කරෙ කොට

350 for officios (p. 8th) and one sequented (27 for depicting) (ii) the chronical field and part of empressed (17 for brothland the supple sequent (17 for supple sequent

sydboles by and bringing a high

සිස්වා වන ම විසිස් පසුමය කරන යුද බව මෙයිස් නිවේදනය කරනු යුතේ.

condition

ment on affered affects medicination (Mile ands folials)

- t of ago: totals, too to: ook oo: galant group oo aliquet abilis
- 3. මහර මහා පෙර සහ බදු පුත්තර සුළ කරි වීමට ඉර කති සහය සහ ප්‍රජාති ත්ත්වා. තත් සිරිවිර, විවිධ වේ පාලාවිදාම ද මහ ප්‍රද්‍යාමේ ද ප්‍රජාත දින ප්‍රජාත ප්



- Develop a long term action plan for the city identifying areas for reducing the risk (use any mechanism available for the city to develop a city level forum to involve all other stakeholders)
- Identify areas where DRM can be mainstreamed through integration of DRM actions in to existing service functions, development programs undertaken by the local government
- Build alliances to improve the resource base.
- Identify the external assistance needed which can be provided by others such as Central/provincial Governments, NGOs, professional bodies, private sector etc.
- Ensure community participation in all steps



Enhancing the capacity of LGs

- By modifying existing laws and other legal provisions
- By strengthening the institutional set up
- By enhancing the human resource capacities through training & capacity building initiatives
- By building partnerships with others stakeholders
- Through better communication strategies citizens, city groups, NGOs, Civil Society etc



Conclusion

- LGs have the mandate for development
- Risk reduction should be considered as an integral part of the development mandate
- LGs therefore should assess the risk environment at their operational level
- And build risk reduction measures in to the routine service functions including development programs





Thank you...

