



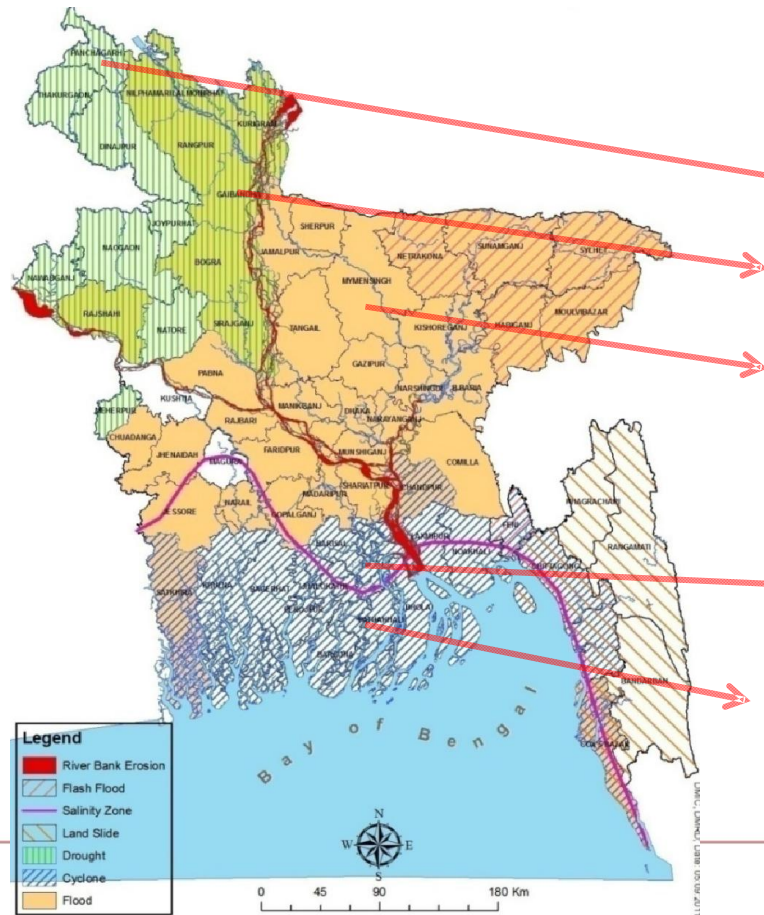
# Disaster risk reduction and preparedness systems in Bangladesh

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## Presentation outline

- Bangladesh disaster overview
- Disaster and vulnerability in Bangladesh
- Evolution of disaster management
- ADPC's roles in disaster preparedness in Bangladesh

# Country Profile



- Ranks globally among the most climate **vulnerable nations**
- **Fifth rank in the world risk index 2012**
- **Cyclone**
- **Flood**

➔ **DROUGHT** - Affecting 8.3 million Ha of land.

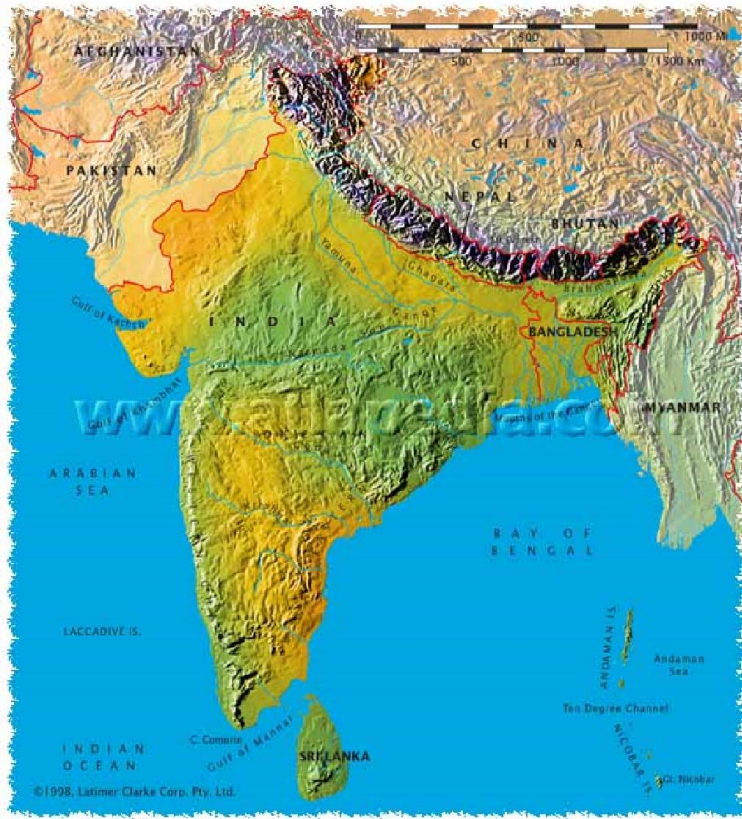
➔ **FLASH FLOOD** – Unpredictable, uncertain.

➔ **FLOOD** - Inundates more areas, increases river erosion, breaches embankments, damages infrastructures.

➔ **SALINITY INTRUSION** - Spreading from 1.5 to 2.5 Mha (2007). Projected displacement: 6-8m by 2020

➔ **CYCLONE** – Remain to be the deadliest and most destructive hazard. It is recurring, with lingering aftermath, complex recovery.  
**AND**  
**CLIMATE CHANGE HAZARDS, EARTHQUAKES, FIRE BREAKOUT, INFRASTRUCTURE COLLAPSE ETC.**





Bangladesh is a flood prone country because of its typical geographical location and being placed in the delta formed by the Ganges, the Brahmaputra and the Meghna rivers.

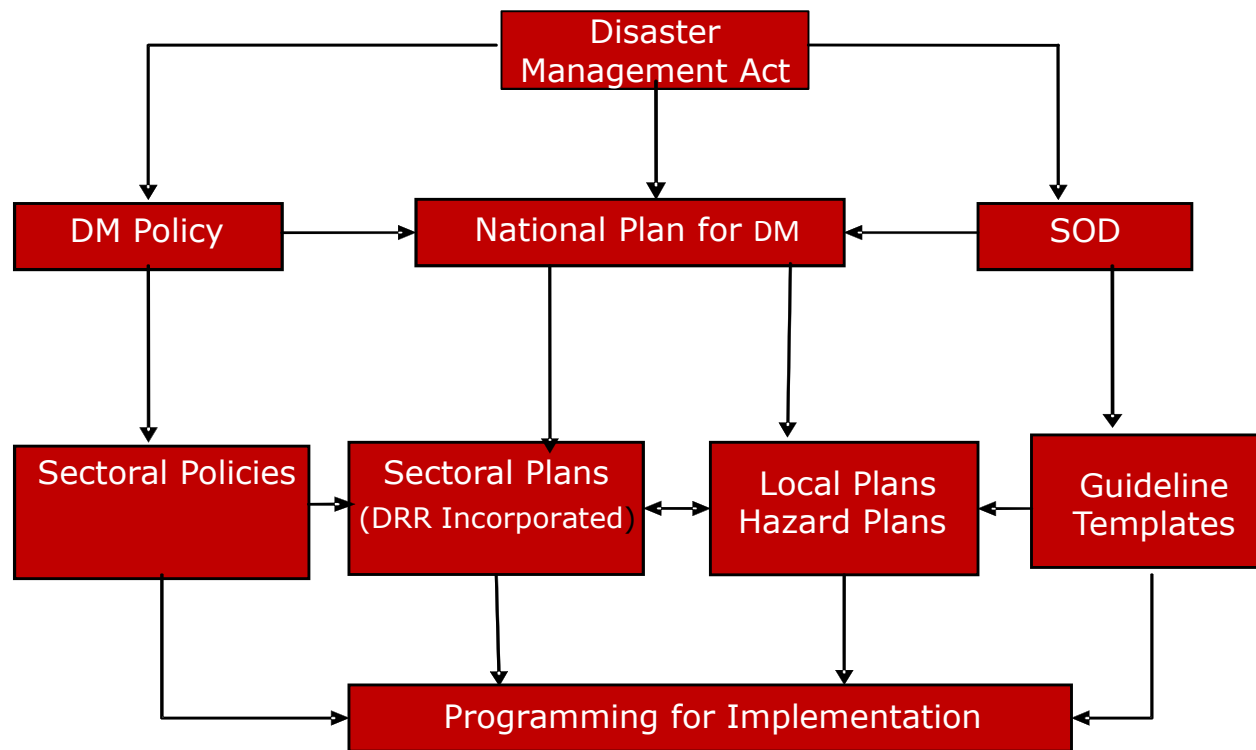
## Common hazards and disasters in Bangladesh

1. Flood, Flash Flood
2. Cyclone
3. Storm surge, Tidal surge
4. Tornado
5. Drought and desertification
6. River erosion
7. Earthquake
8. Arsenic Contamination
9. Pollution
10. Salinity
11. Water logging
12. Biological – Bird flue, Viral Polio, Diarrhoea, Anthrax, Bacterial, water and airborne
13. Animal attacks
14. Pest attacks
15. Cold wave
16. Heat wave
17. Fog
18. Thunder storms
19. Lightening
20. Road, river and rail accident
21. Landslide
22. Land subsidence
23. Dust storm
24. Tsunami
25. Social conflict (riot, terrorism, hijack, bombs)
26. Cyber attack
27. Financial crisis
28. Famine
29. Stampede
30. Fire
31. Collapse

## Evolution of disaster management in Bangladesh

70's	Response oriented disaster management: <ul style="list-style-type: none"><li>• 1970 Gorkey Cyclone, 300,000 people killed</li><li>• 1972 Cyclone preparedness program established</li></ul>
80's – 90's	Emerging DM approaches: <ul style="list-style-type: none"><li>• 1987 -88 huge flood, FAP formulated</li><li>• 1991 cyclone, 138000 people killed, shifting from disaster response to preparedness</li><li>• 1993 constitution of Disaster Management Bureau</li><li>• 1997 Drafting of standing order on disasters (SOD)</li><li>• 1998 prolonged flood</li></ul>
2000 +	Forward towards a comprehensive system including Risk Reduction <ul style="list-style-type: none"><li>• 2000 Comprehensive Disaster Management program formulated and launched in 2004</li><li>• 2005 Ministry of Food and Disaster Management renamed with new DM vision</li><li>• 2006 Revised AoB for MOFDM</li><li>• 2010 Revised SOD, National Plan for Disaster Management</li><li>• DM Act in place</li><li>• DM Policy drafted</li></ul>

# Disaster management regulative framework



# ADPC's efforts and experiences in disaster risk reduction and preparedness

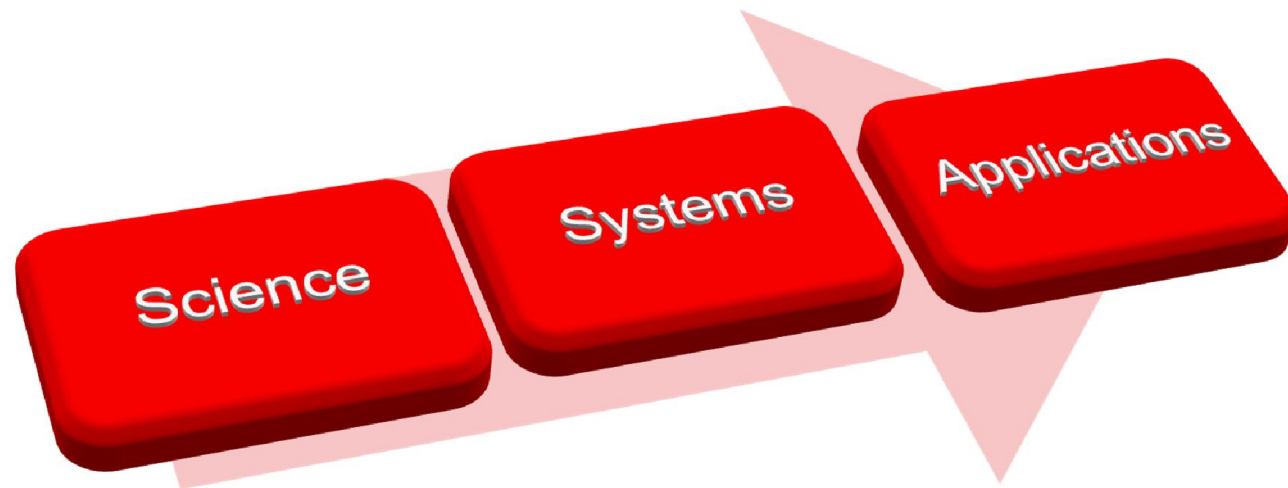
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## ADPC's role in supporting DRR in Asia

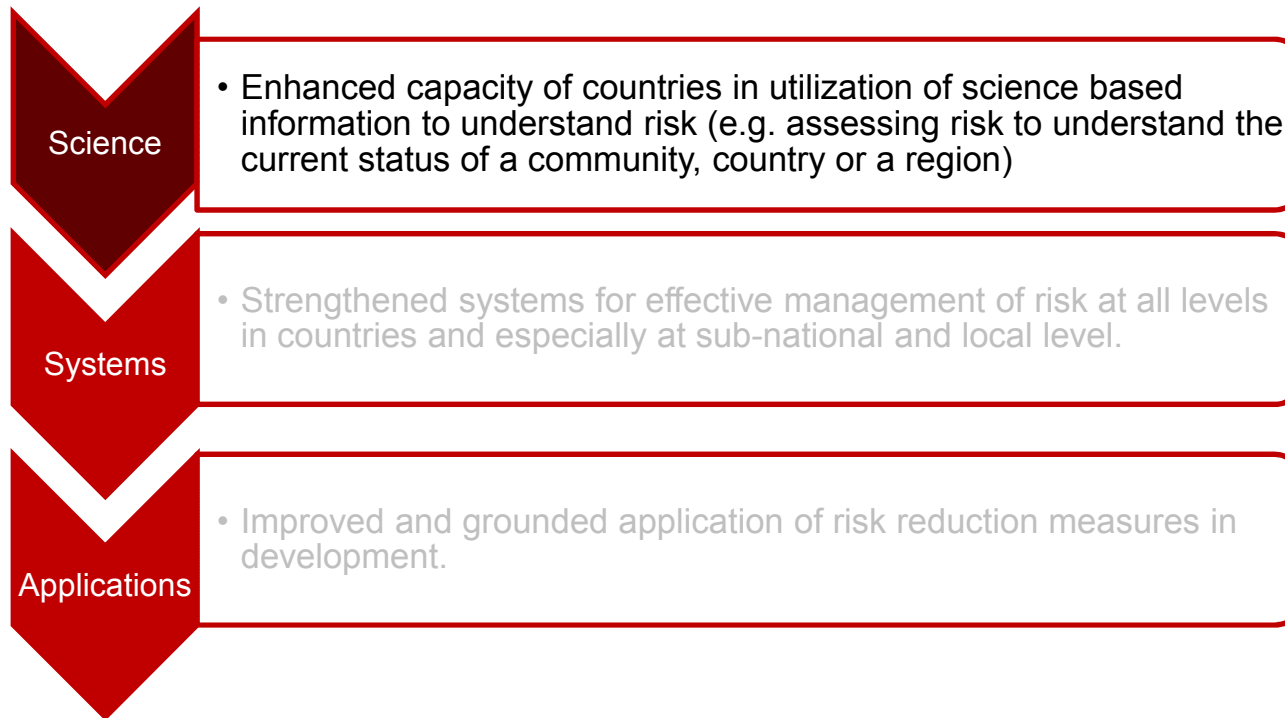
- Flood Risk Assessment
- Earthquake Risk Assessment
- Cyclone & Storm Surge Hazard Risk Assessment
- Drought Risk Assessment
- Technological Hazard Risk Assessment
- Landslide Risk Assessment
- Tsunami Risk Assessment
- Climate Risk Management



## ADPC's Thematic Areas



# ADPC's Thematic Areas

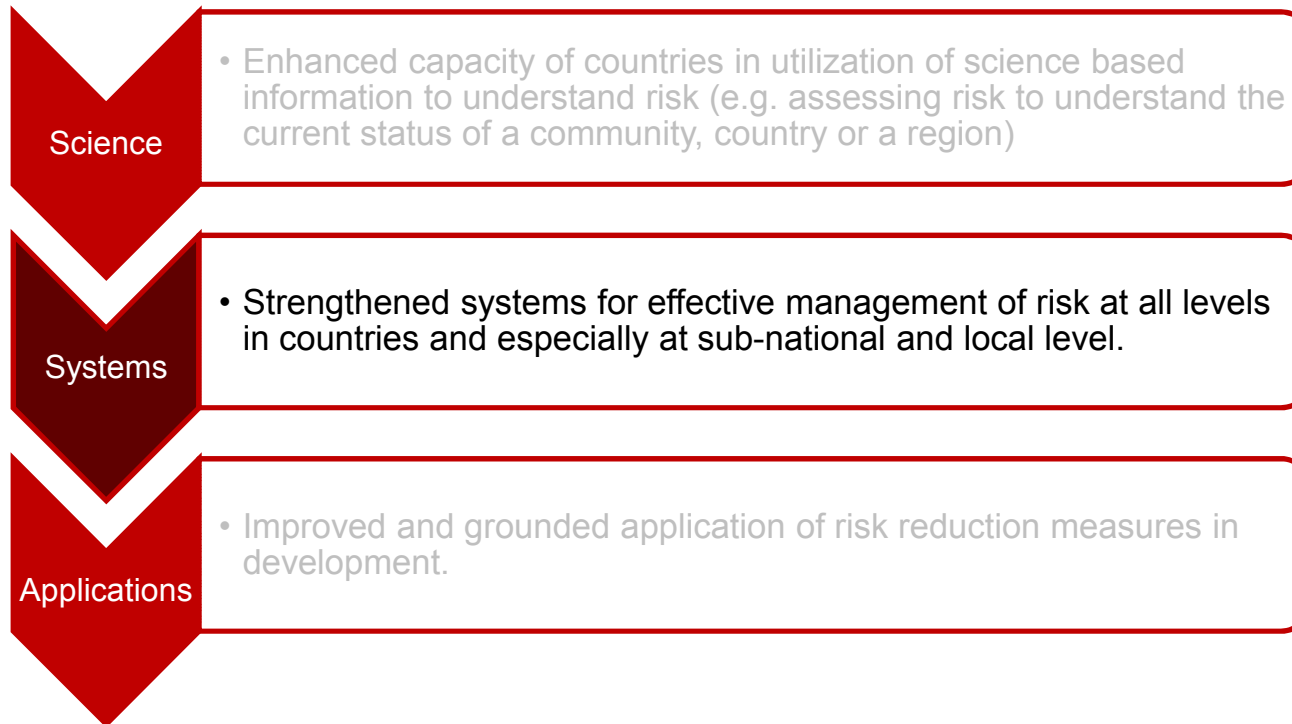


## Science

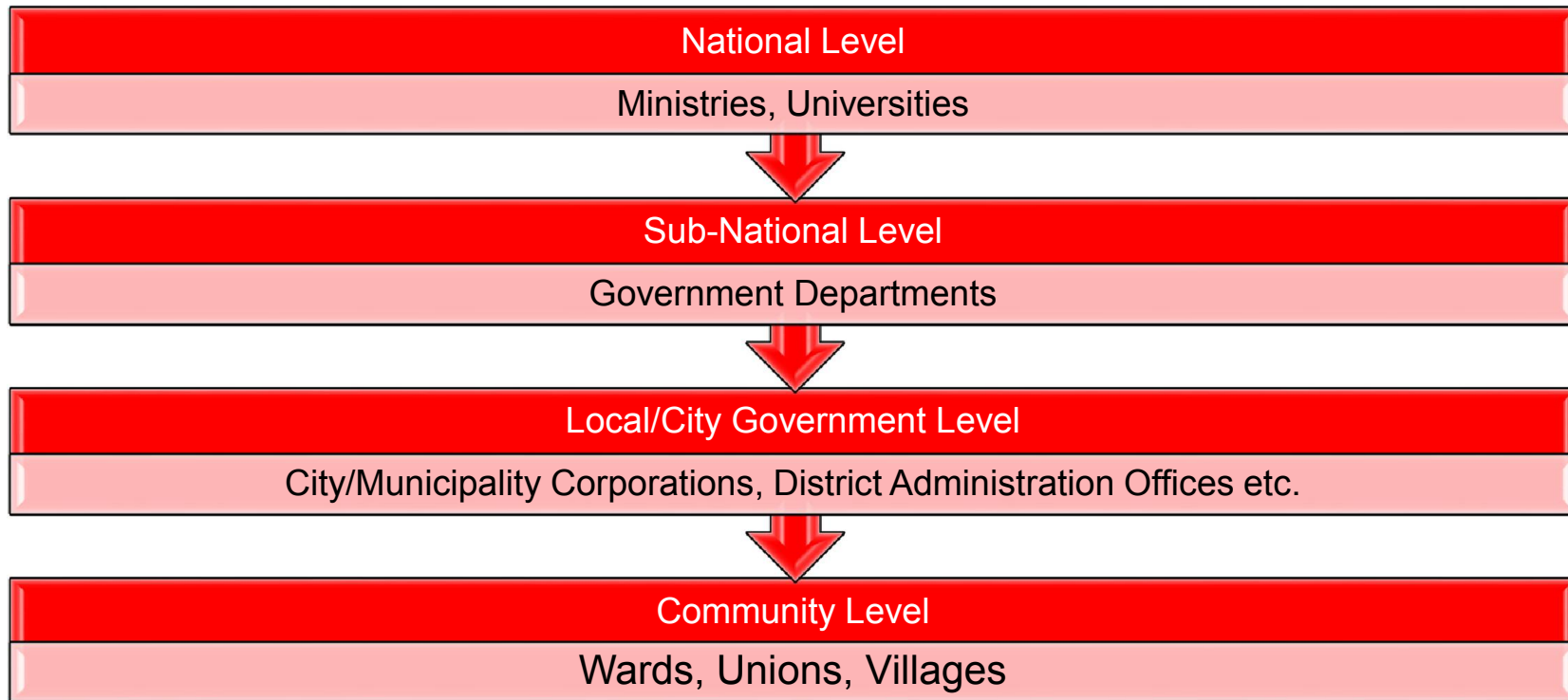
- Enhancing skills and capacities
- Imparting knowledge, experiences and innovative practices
- Providing technical advisory services
- Implementing pioneering regional programs
- Participating in global and regional initiatives
- Establishing new regional forms of association, mechanisms and cooperation
- Supporting inter-agency coherence and coordination



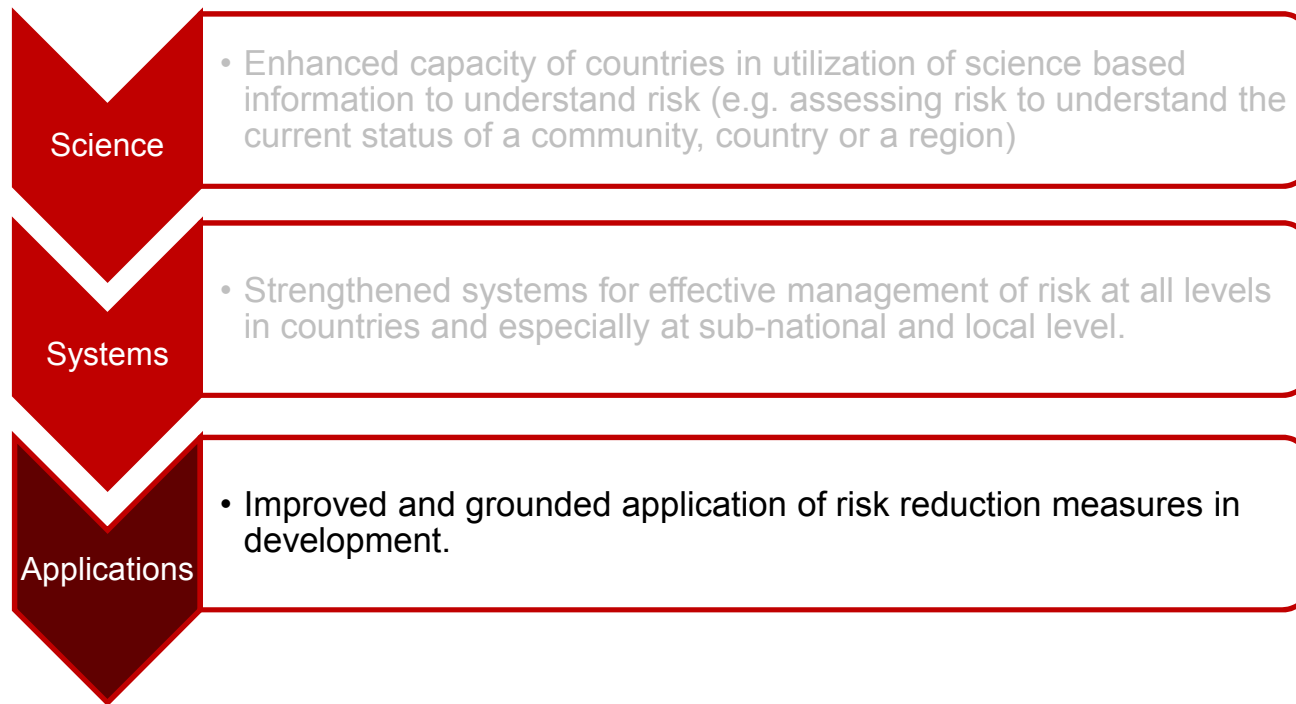
# ADPC's Thematic Areas



# Systems



# ADPC's Thematic Areas





Training for Religious Leaders



Training for Masons and Bar Binders



Earthquake Drill in Schools



Safety and Evacuation Training

# Applications

- Decision Makers
- Government Officials

Knowledge Sharing



- Students & Teachers
- Masons & Bar Binders
- Engineers
- Religious Leaders

Community Capacity Development



- Simulation Drills on earthquake safety, fire safety, landslide safety, cyclone safety, flood safety

Awareness Buildup



- Training for Fire Service & Civil Defence
- Bangladesh Red Crescent Society
- Training for Health Professionals

Capacity Enhancement of First Responders



THANK YOU  
FOR YOUR ATTENTION

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