

The IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation



Inter-linkages of the SREX core concept



Information on vulnerability, exposure, and changing climate extremes together can inform adaptation and disaster risk management



Integrating DRM and CCA for a changing Climate



Natural variability, climate model parameters, future emission

Adaptation approaches for minimizing uncertainties



Scenario-based approach

Adaptive-management approach



Effective risk management and adaptation are tailored to local and regional needs and circumstances

- changes in climate extremes vary across regions
- each region has unique vulnerabilities and exposure to hazards
- effective risk management and adaptation address the factors contributing to exposure and vulnerability





Actors and Scales linkage in DRR and CCA



INTERGOVERNMENTAL PANEL ON Climate change

Coordination across different levels and sectors

Why International level : play significant role in subsidiary, legal obligation, economic , capacity building, financial provider, risk transfer...

Why National level : Actions generated within and managed by communities with supporting government policies are most effective .

Why Local level : First hand disaster experience. Key aspect of action : Identification of social impacts of climate change based on gender, age, disability, ethnicity, geographic, livelihood and migration.

Coordination across different levels and sectors (case study : Dam construction)

Benefits National level: Large-scale energy needs serve major urban center & industry Regional level : Generate energy, assist drought management **Problems** Local level: Erosion, inundation at delta, family fragmentation

Coordination across different levels and sectors (case study : Cyclone shelter in Bangladesh)



Building, managing, maintenance cyclone shelter in Bangladesh



Good practice in ownership and more sustainable

Coordination across different levels and sectors (case study : Katrina aftermath and Thailand great flood)



Recovery for whom and recovery to what, rebuilding houses but fail to provide home ? Unequality , prolonged evacuation period, physical and mental health problems, risk communication failure



Balance short-term needs and Long-term goals

UNISDR (Hyogo Framework for Action 2005 – 2015)

- Encourage system autrices unit allow approach



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UNFCCC Commitments on CCA

Article 4.1

b) Formulate, implement, publish, and regularly un here CCA Was mittally on climate on a for of the change of the climate of the store of the climate of the store of sar un prio appropriate, regional programs containing mean mitigate climate change by addressing anthr urces .e Montreal and removals by sinks of all greenhous nate change. Protocol, and measures to facilitate , climate change: (e) Cooperate in preparing for s for coastal zone develop and elaborate appr Ju for the protection and management, water res cted by drought and rehabilitation of are desertification, ? into account, to the extent feasible, in a environmental policies and actions, and their rela Jr example impact assessments, formulated and a view to minimizing adverse effects on the emr uth, and on the quality of the environment, of projects or ecv en by them to mitigate or adapt to climate change. mea 13

Bali Action Plan (2008), Copenhagen accord (2009), Cancun agreement (2010)

1) International cooperation to support urgent implementation of anning Energy anisk reduction Energy associated with climater that are particular of the company t adaptation actions, including through vulnerability assessmer

Thailand great flood 2011 : Key findings and how SREX can be applied







High vulnerable and exposure are the outcome of "Skewed development"

- Environmental mismanagement
- Rapid unplanned urbanisation
- Demographic change
- Failed governance
- Scarcity of livelihood

Storms affected Thailand great flood 2011 (JICA)





Climate change & Climate variability are happening !

Floodplain flow caused severe damages



Settlement in hazard prone area
Unsafe dwellings
Slum, scattered districts
Poverty
Lack of awareness risk
Lack of effective risk communication

More smart development (No or Low-regret measure)

Flood resilient



Flood avoidance



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CC

Flood resistant



Conclusions

- DRM and CCA should be integral components of development planning and implementation to increase resilience & sustainability
- Not all disaster risk can be managed, so act to manage residual risk
- Coordination of DRM and CCA across different scales and sectors is necessary
- Disruption caused by disaster event often reveal development failure
- From skewed to smart development by considering "no or low regret measures" for adaptation