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# IWRM and Water Disaster Risk Management

## Key Challenges

- Massive natural forces – total control not possible
- Highly dynamic hydrology and morphology caused by complex natural processes across the basin
- Further threat/uncertainty due to climate change
- Effective water DRM calls for basin-wide integrated approach yet interstate cooperation not easily facilitated
- Other common challenges – program fragmentation; structural focus; limited stakeholder participation; limited data and knowledge base; poor infra maintenance, etc.

# Keys for Successful IWRM (from DRM Perspective)

## Sound and Practical Strategic Framework

Policy and Planning Framework



Institutional Foundations

- o Water DRM Institutional Setup and Management Systems
- o Data and Knowledge Base



Comprehensive Water DRM Instruments/Measures

- o Structural Measures
- o Nonstructural Measures
- o Accountable Program Delivery Mechanism



# Keys for Successful IWRM (from DRM Perspective)

## "Knowledge-Driven" and "Adaptive" Approach

- Understanding on complex river processes critical
  - (a) towards systematic and proactive approach from conventional piece-meal reactive approach
  - (b) for facilitation of interstate dialogues
- Adaptive to changes in dynamic conditions, new findings

## Stakeholder Participation and Agency Accountability

- Water DRM program delivery accountable to whom?
- Opportunities to utilize LGI-based DRM setup as platform of participatory and informed decision making



# Keys for Successful IWRM (from DRM Perspective)

## Drivers for Change – Political Commitment & Organizational Leadership

- Change management from conventional approach towards more holistic, participatory, knowledge-driven, and adaptive water DRM.
  - Ownership and stable leadership of the host agency critical, along with political commitment and oversight