





Collaboration, Innovation and Resilience: Championing a Digital Generation

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# Building a Climate-Responsive Land Governance Framework: A Care from Nepal

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### **Presentation Outline**

- Setting the Scene
- Impact of Climate Change in Land
- Climate Change Land Nexus
- Melamchi Case Study
- Need of Climate Responsive Land Governance System
- Immediate Action to develop Climate Responsive Land Governance Framework
- Conclusion













































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# **Impact of Climate Change in Land**

- Glacial lake outburst
- Landslides / Soil erosion
- Flooding
- Forest fire
- Depleted water sources
- Loss of land
- Desertification
- Reduced agricultural productivity
- Loss of biodiversity
- Water scarcity



- Increased Poverty and Economic Insecurity
- Displacement
- Disruption in social activities
- Increased vulnerability
- Impact on indigenous practices and traditional practices
- Social conflicts over resources





















# **Climate Change - Land Nexus in Legal and Policy Documents**

- Policy and Legal Frameworks are in place but Land Tenure issues are missing
  - Policies: Land Use Policy, 2015; National Land Policy, 2018; National Climate Policy, 2019
- Acts/Regulations;
  - Land Related Act and Rules; Land Revenue Act and Regulation, Land Use Act and Regulation, Land (Survey and Measurement) Act/Regulation
- Disaster Risk Reduction National Action Plan 2018-2030
  - Local Adaptation Plan of Actions to Climate Change (LAPA)
  - National Adaptation Plan of Actions to Climate Change (NAPA)
- Environment Friendly Local Governance Framework, 2021



Limited recognition of the critical role of land tenure in climate change adaptation / resilience





















## **Climate Change - Land Nexus: In practice**

- The issue of Land Tenure/ Land Rights / Land Ownership is overlooked in Climate Disbussion
  - e.g. High Level Climate Change Steering Committee no representation from the Ministry of Land Manageme
- No specific policies and legal provisions to address the issue of Post Disaster Landlessness
  - Guidelines for housing are available though; no titles are issued to affected family if rehabilitated else
- There is no any provision of addressing landlessness caused by disaster in the DRR National Strategy. Plan of Action (2018-2030)
- Land Use Planning has not been considered as a basis for infrastructure development
- Post-disaster landlessness and tenure loss is NOT in reord
  - Impacts to Informal Settelers?
  - Impacts to social tenure, pasture land, open space, land of public usasge??



















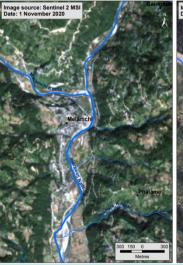


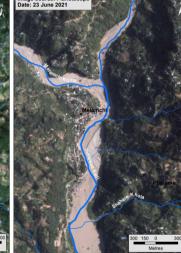


#### **CASE STUDY: MELAMCHI FLOOD**

- Disastrous flooding on June 15, 2021 about 50 km from the capital city
  - A stretch of Indrawati basin, 18 kilometer in length, consisting of the Melamchi, Yangri, and Larke rivers that lies in Helambu Rural Municipality and Melamchi Municipality
- Major Losses encountered
  - Altogether 40 causalities (including those reported mission)
  - Destruction of houses, infrastructure, agriculture, tourism, traditional practices, and cultural values
  - Damage to the headworks of a mega drinking water project Melamchi Project- developed for Kathmandu Valley
  - Multiple Loss to Land Tenure (next slide)

























# **CASE STUDY: MELAMCHI FLOOD; Multiple loss to land tenure**

- About 215 households displaced have to relocated at new location
- Subsistence farming-based families have incurred a permanent loss or damage of highly valuable agriculture and farm land, especially highly productive paddy fields as well as the harvest of rice 270 parcels completely lost.
- Communities settled near the river have lost multiple sources of livelihoods such as small shops, agricultural land.
- Riparian communities such as fishing communities faced a higher level of vulnerability due to their dependence on the river for their livelihoods.
- Trout farm holders not only lost their farms but also many people lost their jobs from such farms
- Subsistence farming based families have incurred a permanent loss of highly valuable paddy fields as well as.
- Children also faced disruption in their education due to the loss of school buildings.
- Altogether a loss of US\$500 million was estimated





















# **CASE STUDY: MELAMCHI FLOOD; Findings/observations**

- Weak responses to the disaster
  - Nominal compensation (only a sum of US\$4,500 per household)
  - No rehabilitation of lost land parcels yet
  - No rehabilitation of lost houses, especially individual properties yet
  - No rehabilitation or recognition of multiple tenure rights
- In summary: This case underscores the weaknesses in addressing the issue for land tenure security, ultimately endangering the lives and well-being of its people



























# **Need of Climate Responsive Land Goverance in Nepal**

- To safeguard land rights, strengthen adaptive capacity, and sustain limit boods.
- To enhance resilience and reduce vulnerability to climate-induced disasters.
- To ensure tenure security, even in the face of losses caused by climate-induced disasters.
- To promote sustainable land and resource management to mitigate climate impacts.
- To empower local communities with the tools and authority to adapt to changing climate conditions.
- Ultimately, to establish a climate-resilient, equitable, and sustainable land governance system.

**Call to Action:** 

Developing a climate-resilient land governance framework is of Immediate Priority in Nepal















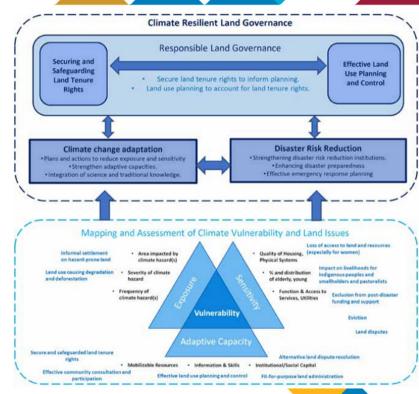






# Actions to develop Climate Responsive Land Governance Framework is

- **Enhancing Awareness** 
  - To make aware about how land issues are under threat from the climate induced disasters
- Assessment of climate change induced impacts in land sector
  - Adequate human capacity
  - Adequate information
- Improve the policy and legal provisions
  - To make sure that impact of climate change in land issues are well addressed
- Carryout climate responsive land use planning
- Strenghthen the organisational capacity



Framework by: Mitchell and McEvoy, 2019)





















#### Conclusion

- Nepal faces serious threats from climate change, posing significant risks to land issues including land use/tenure/right/ownership
- Little or almost negligible attentions are in place to address these risks
- Sustainable and climate-resilient land management/governance is esset for a secure future.
- Developing a "climate-resilient land governance framework" deserves a immediate plan to acti
  - with adequate policy and legal framework, governance tools, capacitated governance machinerary, among place.























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## The most relevant SDGs related to the presentation and them of this session





2nd relevant SDG



3rd relevant SDG





International Federation of Surveyors supports the Sustainable Development Goals



























### **Thank You!**























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STEP 2: COPY THE SDG INTO PREVIOUS SLIDE















