

National Climate Change Impact Survey II (NCCIS II)

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Background

- Climate change impacts become highly visible affecting different aspects of human society and ecosystem across the globe
- Nepal experienced direct impacts of climate change and is one of the most vulnerable countries in the world
- Nepal government devised a number of policy instruments on climate change
- Effective implementation of such instruments is a challenge due to various limitations including lack of availability of integrated and reliable data

Background.....

- In 2016, CBS conducted a nationwide Climate Change Impact Survey (NCCIS)
- The primary aim was to address the data gap and strengthen information on climate change and make it available for use of this information for regular planning and programme development
- The NCCIS was the first of its kind to understand the impacts and effects of climate change on the social, economic, and environmental aspects at the national level taking views from the household level
- It also aimed at establishing linkages with Sustainable Development Goals (SDGs) indicators especially climate change and other appropriate indicators related to the environment

Background

- The NCCIS 16 used combined methodology to capture both perception and quantitative information

- The NCCIS I was built on the IPCC third and fourth assessment report and considers capturing change observed at the household level and depending upon specific socio-economics situations
- The IPCC defines, “vulnerability as the degree to which a system is susceptible to or unable to cope with, adverse effects of climate change, including climate variability and extremes
- Vulnerability is the function of exposure, sensitivity, and adaptive capacity
- The vulnerability and climate change impact assessment at the household level investigates major aspects of climate change impact at the household level and their coping and adaptive capacity to respond to the impact

National Climate Change Impact Survey II

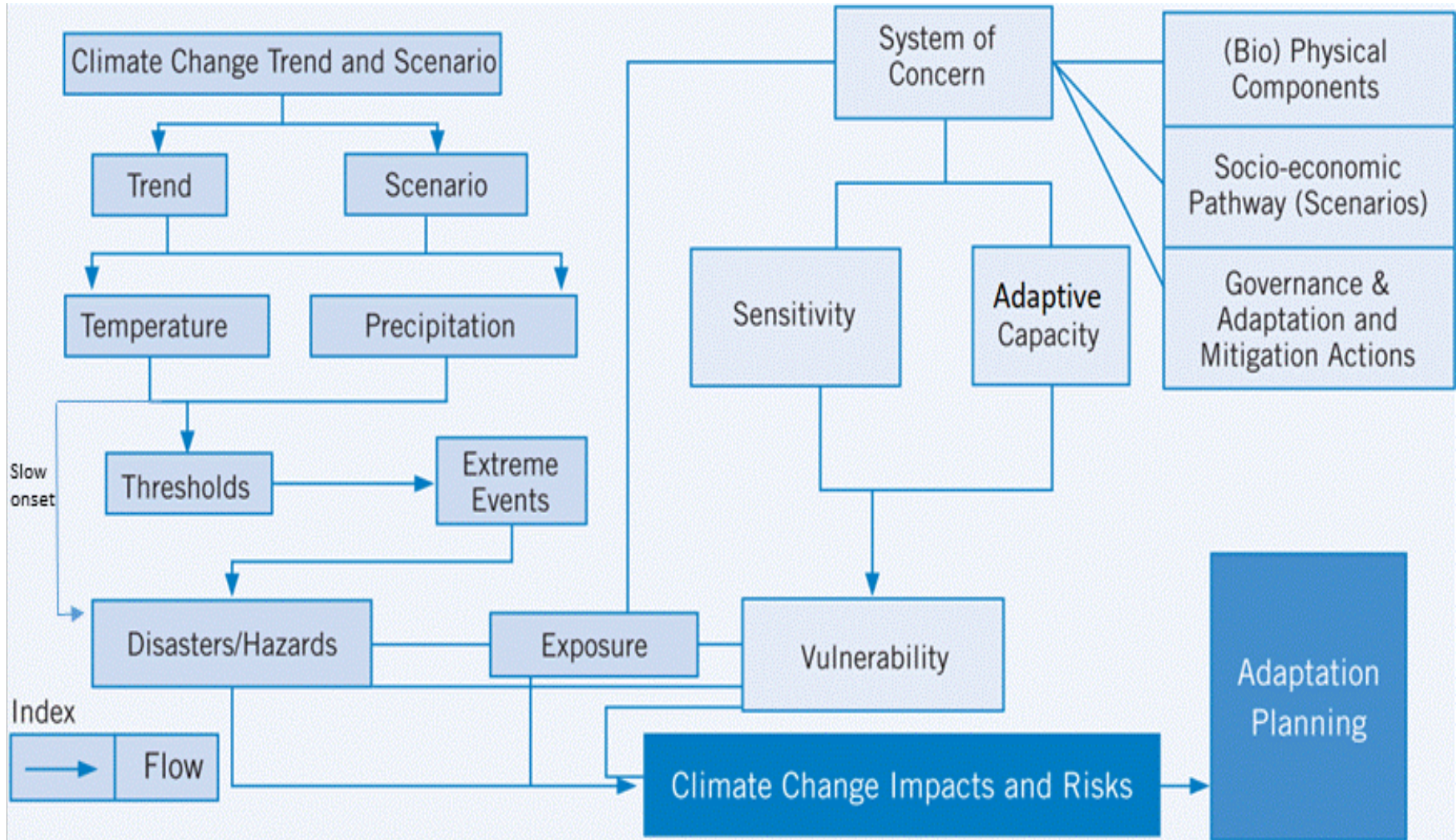
- Based on the experience and lessons from the first NCCIS, CBS intends to discuss with wider stakeholder to agree upon methodological framework and approach to be adopted in the next climate change survey
- The proposed questionnaire will cover impact of climate change including loss and damage information
- Both quantitative and qualitative data will be collected.

Updating Climate change survey methodology and indicators

- Since 2017, there has been major progress in terms of national and international policy and strategic directions including changes in the way climate change risk and vulnerability are defined and assessed.
- Anthropogenic climate change continues to rise
- Rapid extreme weather events, and greater impacts from slower weather events causing more loss and damage
- Climate justice needs to be a central component of humanity's response to climate change and that addressing Loss and Damage (L&D)

- The impacts of climate change that cannot or will not be avoided through mitigation or adaptation efforts are particularly challenging for those poor countries that are already exposed to harsh climate conditions
- They include the losses and damages both from changes in the frequency, intensity, and geographical distribution of extreme weather events such as storms and floods and from slow-onset phenomena such as glacier melting, loss of biodiversity, and desertification
- So the contextual and revised framework is needed to carry out a national climate change survey in Nepal that not only looks at the vulnerability but assesses losses and damages, including the risks of climate change impacts

Framework for Vulnerability and Risk for next NCCIS



Framework for Loss and Damage for next NCCIS (Source: MoFE)

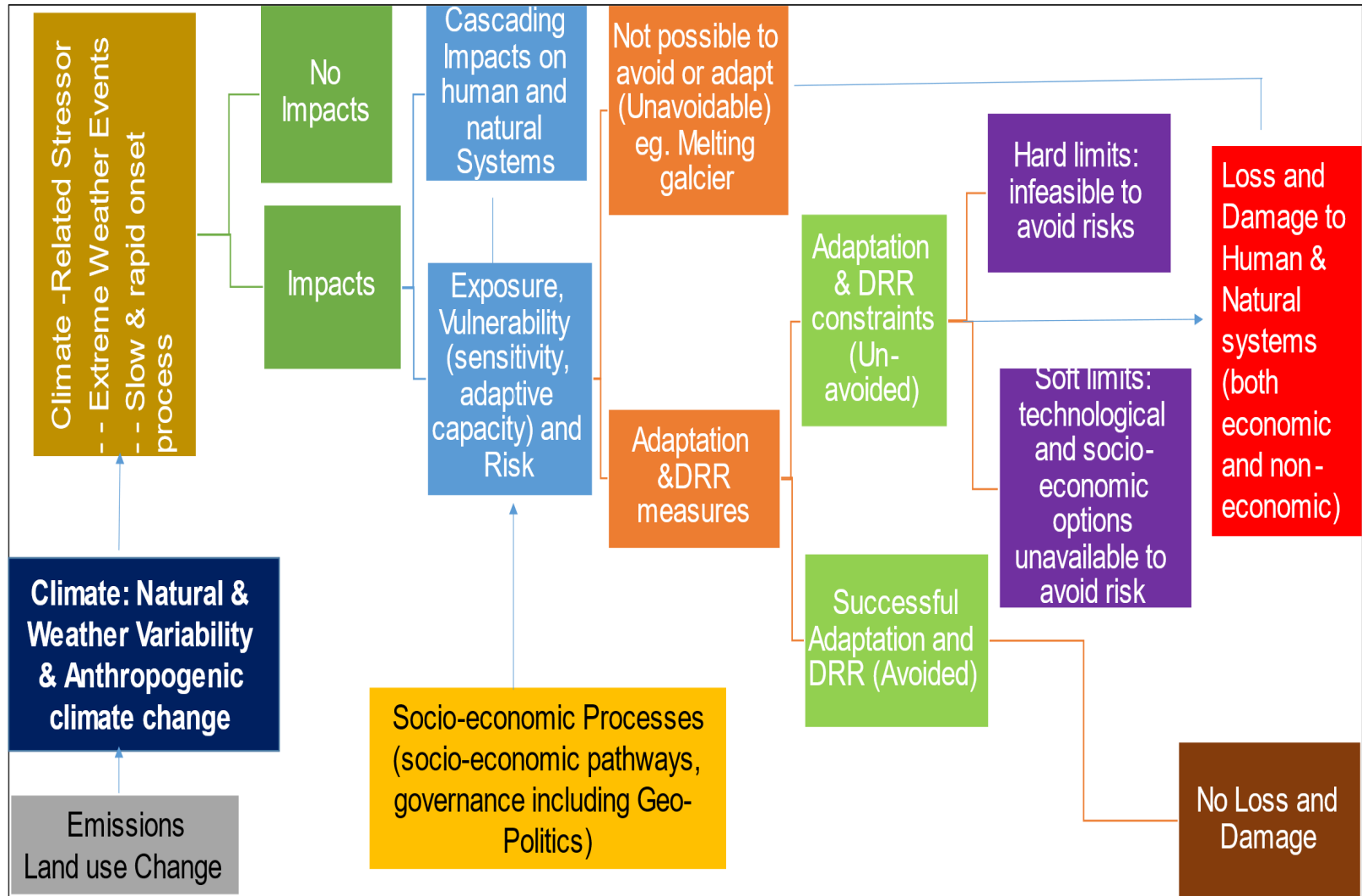


Figure: Conceptual Framework for Understanding Loss and Damage

Objectives of Survey

1. Understanding and acquiring knowledge on effect and impact of climate change from social, economic & environmental perspective;
2. Exploring how the respondents are developing or making adaptive capacity to confront the impact of climate change
3. Establishing linkage of climate change and environment related indicator with the SDG (Goal 13) for taking urgent action to combat climate change and its impact
4. Comparing and update with NCCIS I

Content of the Questionnaire

- More than 100 questions
- Trend & information since 25 & 5 years

01 Modules

1. Introduction
2. Demography & Household information
3. Land holding Information of household
4. Household Access to the socioeconomic services
5. Household Income Information

Content of the Questionnaire cont...

6. Knowledge and perception about climate change
7. Impact of natural disasters or events
8. Diseases and health impacts
9. Impact of climate change on water resources
10. Impact of climate change on bio-diversity
11. Impact of climate change on tourism
12. coping strategies/action adopted by households due to impact of climate change

Thematic Areas Included

1. Agriculture
2. Forest
3. Disaster
4. Urban
5. Health and WASH
6. Water Resources and Energy
7. Gender
8. Tourism

Approaches for data collection

- Household survey: a collection of household-specific information
- FGD: a collection of information common to every household
- Case studies: Particularly for gathering loss and damage related data

Literature review

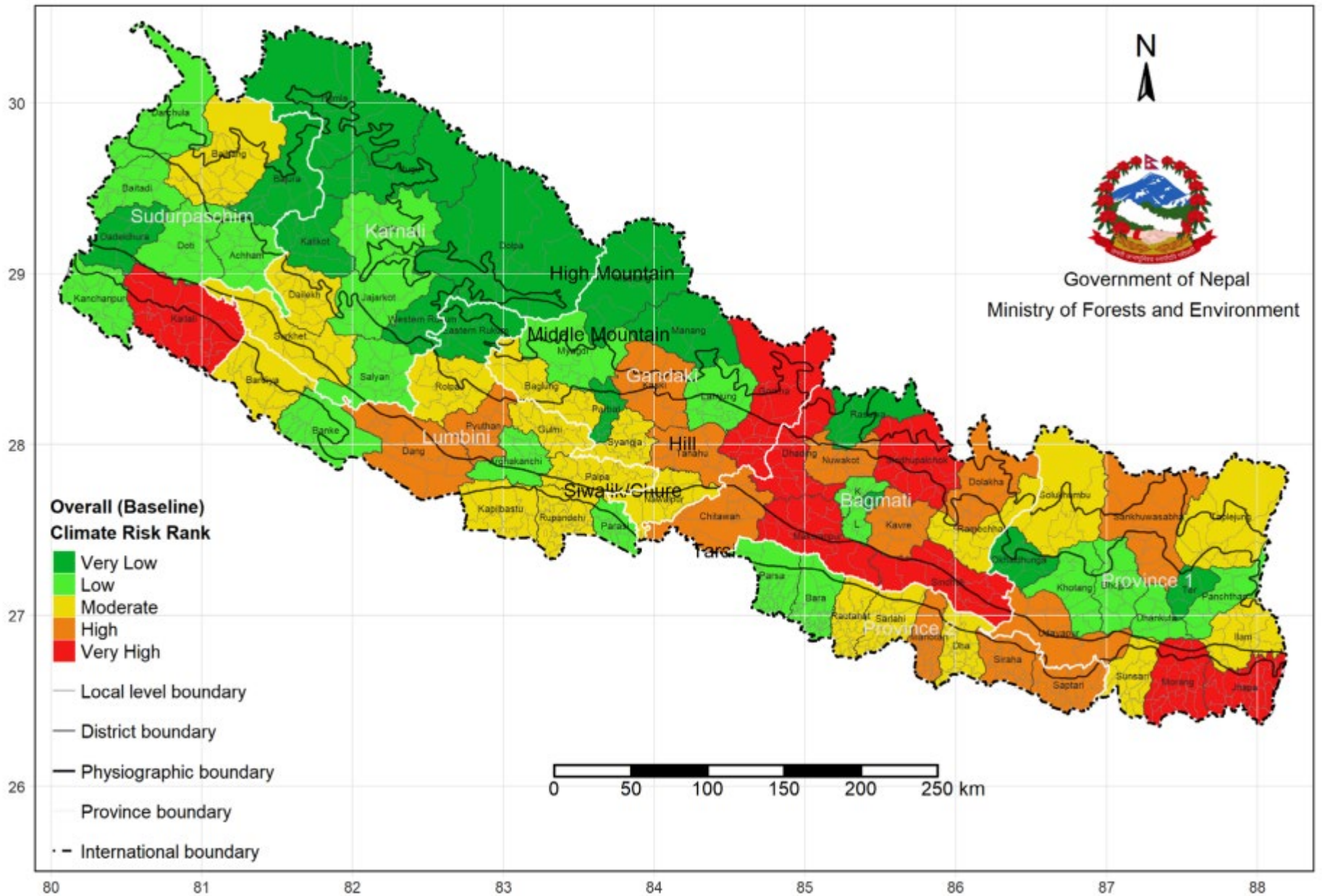
- National Climate Change Impact Survey I
- Impact of climate change on human life(ICCHL) Survey in Bangladesh
- Climate Asia Survey Questionnaire used across the seven Climate Asia Countries – Bangladesh, China, India, Indonesia, Nepal, Pakistan and Vietnam
- Climate and Rural Poverty: Incorporating Climate into Rural Development Strategies
- UNSD,UNESCAP,UNCEE, FAO documents
- Expert view

Sample Design

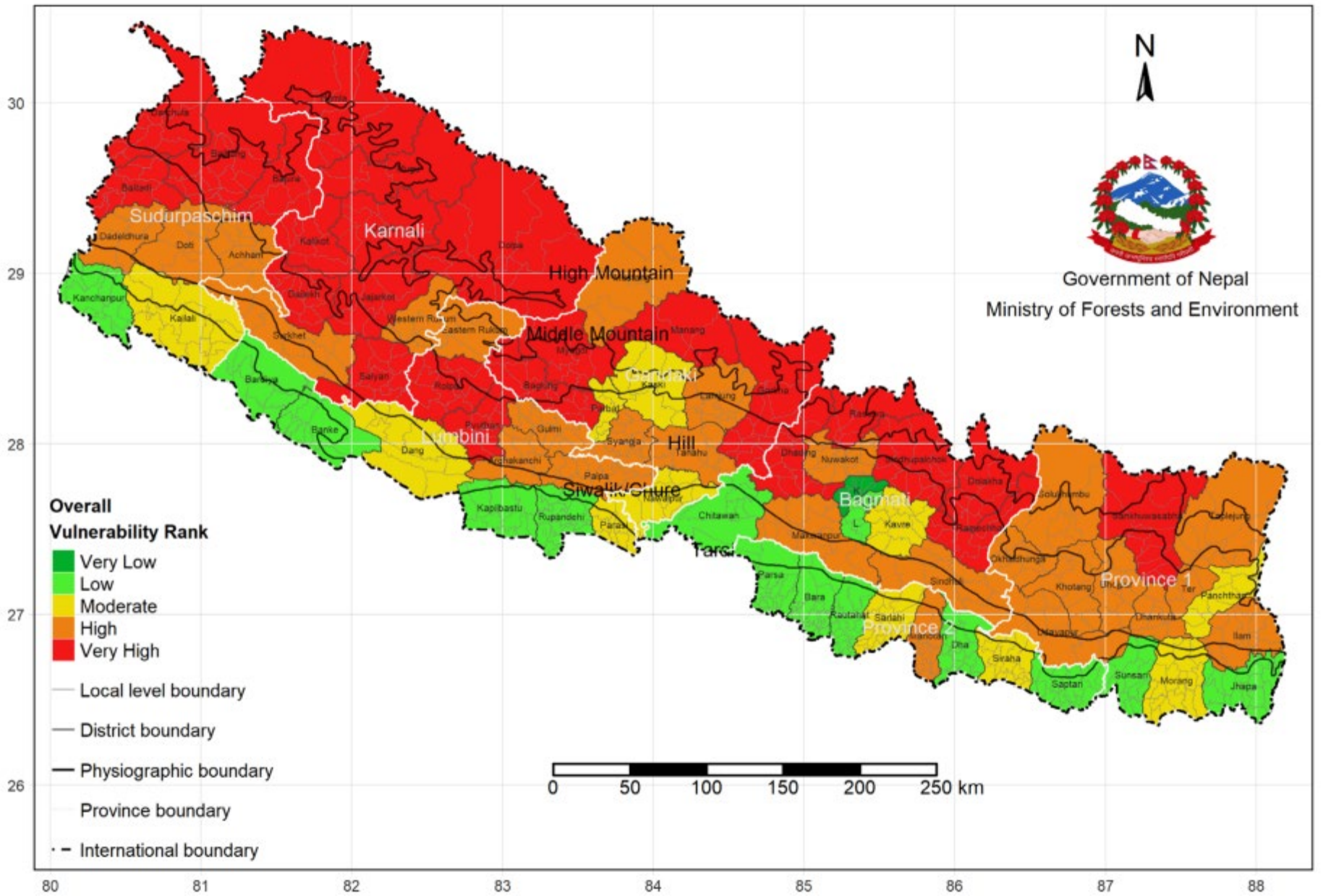
- 7 Domain (provinces)
- Ward or part of ward is the PSU of the survey(Enumeration area)
- Enumeration area maps are available in CBS
- Frame will be the Population census 2021
- 326 PSUs will be selected by PPS sampling technique
- Large wards will be splitting by cartography
- Listing of the enumeration area
- From the listing 20 HH will be selected by Systematic Sampling
- Total HH 6520

Selection criteria

- Respondent should be 45 years or more
- Respondent should be there since 25 years



Baseline risk of climate change impact in Nepal



Vulnerability Map of Nepal

Current status

- Formation of Steering and Technical Committees having representative from various stakeholders
- Organized the interaction workshop with stakeholders and expert of climate change and got feedback
- Questionnaire draft and pretest
- Sample design
- Manual preparation
- Data entry program design

THANK YOU

Suggestion/feedback will be expected