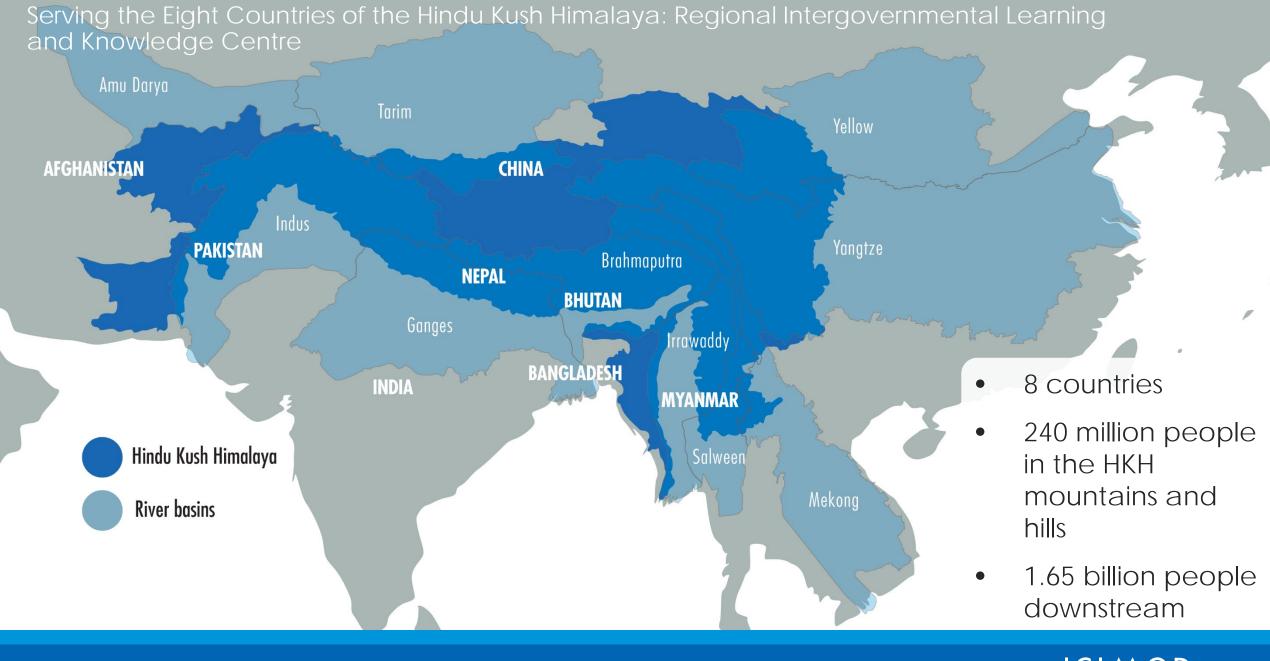


ICIMOD and Hindu Kush Himalayan (HKH) Assessment

Presenter: Sanjeev Bhuchar, ICIMOD Koshi Disaster Risk Reduction (DRR) Knowledge Hub country consultation 30 July, 2019, Patna, Bihar, India

International Centre for Integrated Mountain Development

Kathmandu, Nepal



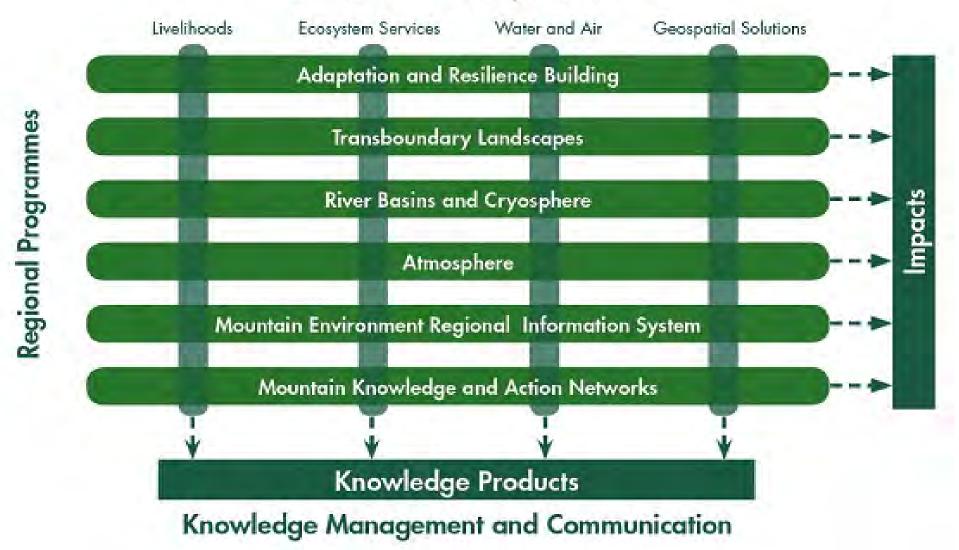


Vision

Men, women, and children of the Hindu Kush Himalaya enjoy improved wellbeing in a healthy mountain environment



Thematic Core Competencies



Governance

Board of Governors

Representatives of 8 Regional Member Countries plus

Programme Advisory Committee

7 independent Board Members

• ICIMOD Support Group

Made up of financial contributors



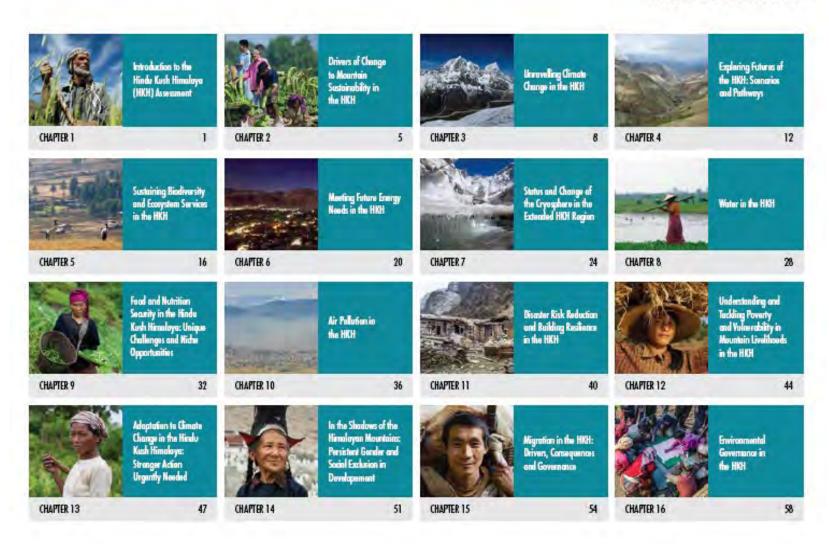




Mountains, Climate Change, Sustainability and People



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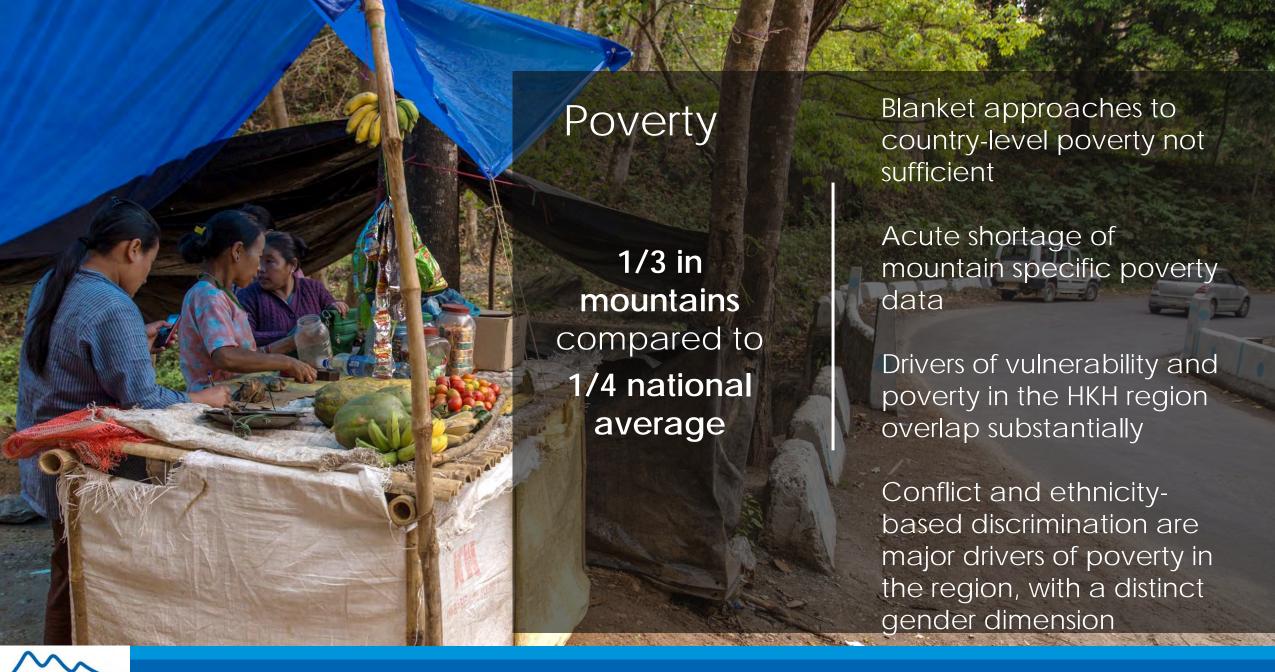
LINK TO THE FULL HKH ASSESSMENT REPORT

P. Wester, A. Mishra, A. Mukherji, A. B. Shrestha (eds) (2019) The Hindu Kush Himalaya Assessment—Mountains, Climate Change, Sustainability and People, Springer Nature Switzerland AG, Cham.

Download the full assessment at

https://doi.org/10.1007/978-3-319-92288-1

Summary of the HKH Assessment Report





Even 1.5
Degrees is Too
Hot for the
HKH

and amplified by Elevation Dependent Warming

Source: HIMAP climate change chapter and Kraaijenbrink et al. 2017, Nature HKH will warm more compared to global mean and warm more rapidly at higher elevations

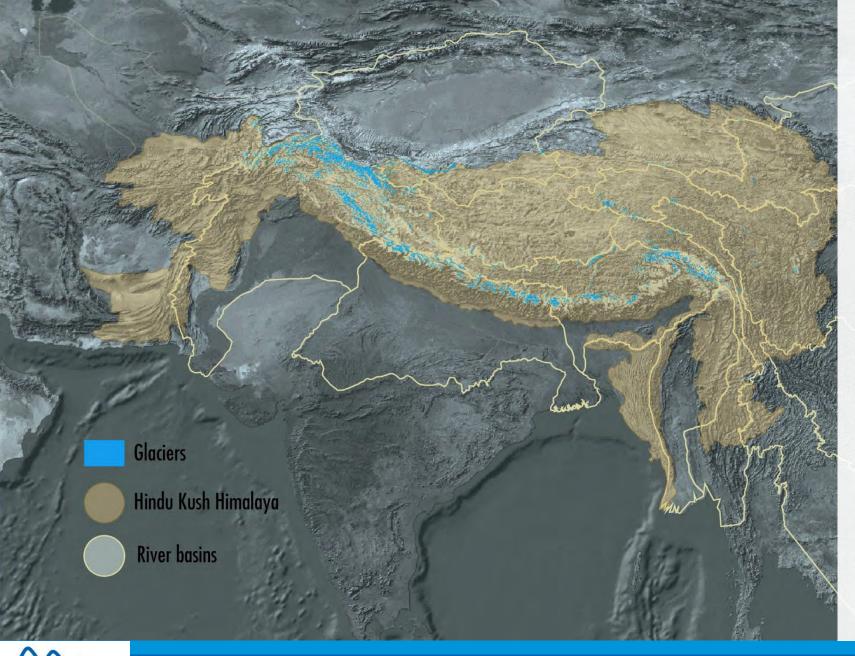
— 2.1 ± 0.1°C (PI) in a 1.5 degree world
 — 2.5 ± 1.5°C by 2100 relative to 1976-2005 (RCP 4.5)
 — 5.5 ± 1.5°C by 2100 relative to 1976-2005 at current emission trends

For areas above 2,000m, if 1.5°C EOC then:

- Karakoram 2.2 ± 0.4°C
- Central Himalayas 2.0 ± 0.5°C
- Southeast Himalayas 2.0 ± 0.5°C



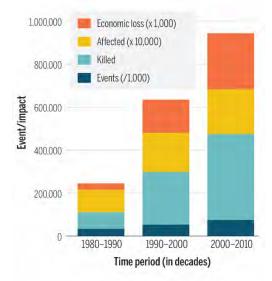




Climate change impacts on water resources

- Loss of storage in the form of ice
- Greater impact for those living closer to glaciers
- Changing precipitation and flow patterns – more floods and droughts; high uncertainty
- CC also likely to affect springs in the mid-hills of the HKH, but limited evidence.
- Indus: increased glacier melt, then declines after mid-century Ganges/Brahmaputra: increased runoff mainly due to precipitation





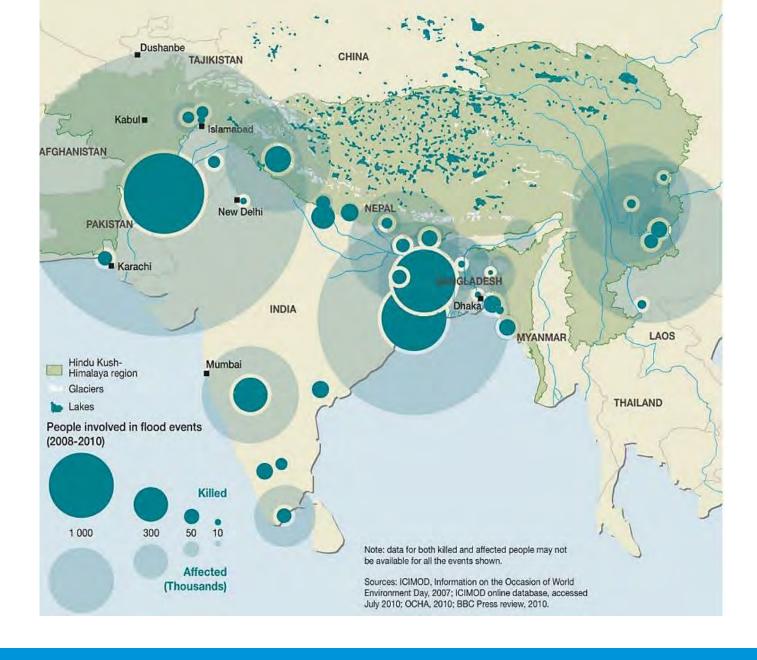
Disaster risk is increasing

Floods, droughts, landslides, glacial lake outburst floods

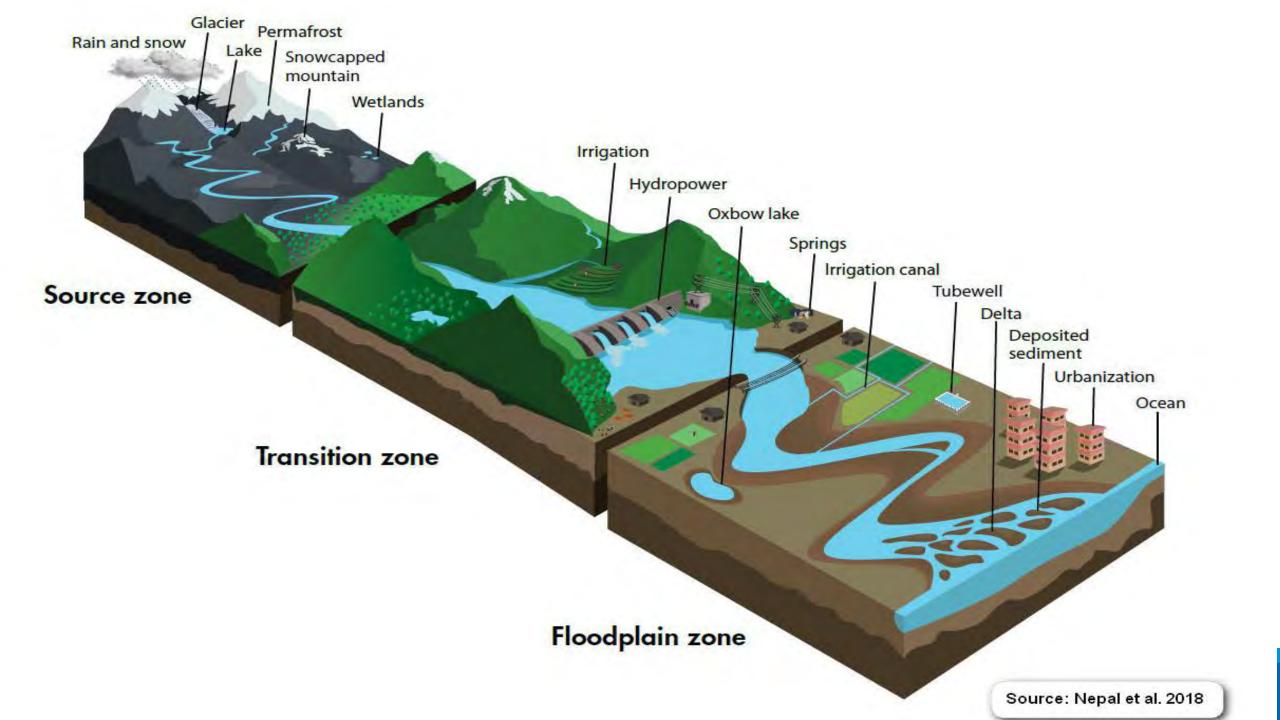
One-third of disasters are floods, many crossing national borders

More than 1 billion people at risk of exposure to increasing frequency and intensity of natural hazards

Women more susceptible to natural disasters then men







Need for gender responsive and socially inclusive strategies and actions

WOMEN IN THE HINDU KUSH HIMALAYA ARE MORE SUSCEPTIBLE TO NATURAL DISASTERS THAN MEN

The pre-existing social structures and norms create greater stress on women and marginalized groups further exacerbating their vulnerability. More women than men die when disasters strike. Gender inequities are evident in a lack of, or inadequate, early warning information and evacuation procedures and arrangements targeting women. In some cases, women may be ill-informed about natural hazards and not allowed to make the decision to evacuate. This situation is compounded by high rates of male outmigration.

