ICIMOD - Responding to Mountain Challenges in the Hindu Kush-Himalayas

ICIMOD 30

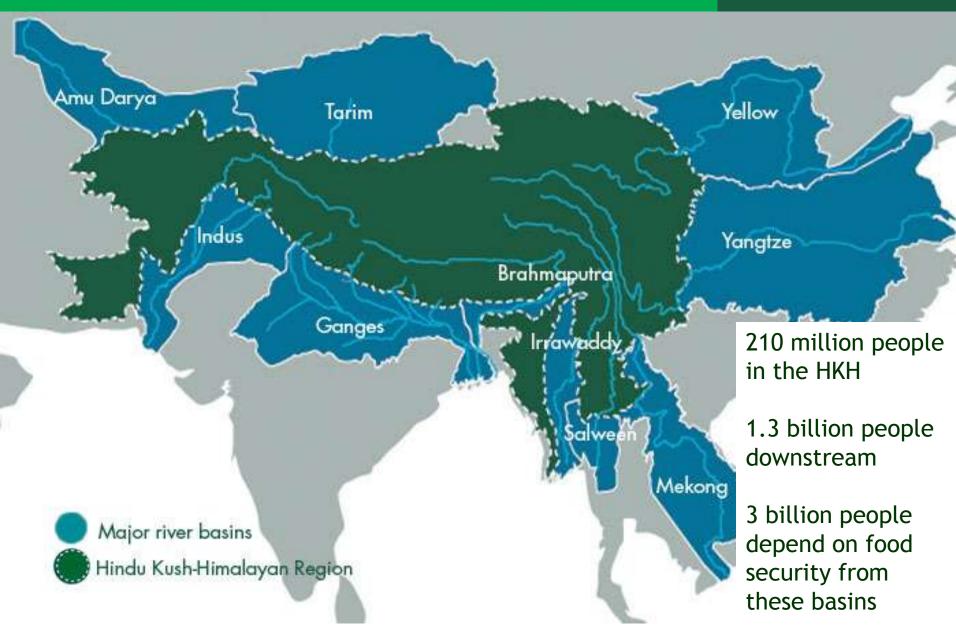
Eklabya Sharma

International Centre for Integrated Mountain Development Kathmandu, Nepal

THREE DECADES
FOR MOUNTAINS AND PEOPLE

Regional Intergovernmental Learning and Knowledge Centre





The Third Pole - Water Towers of Asia





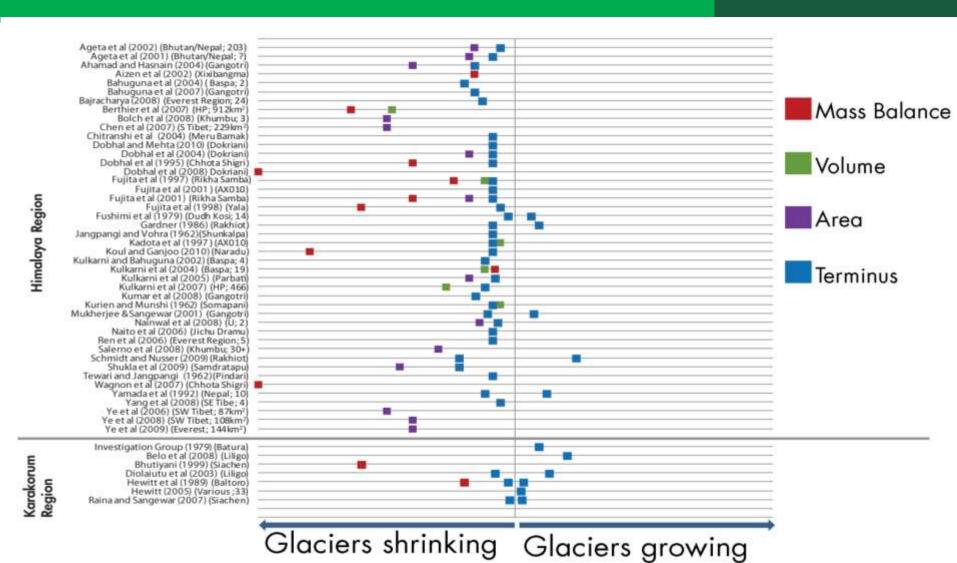




Himalayan Glaciers are Shrinking According to Many Studies

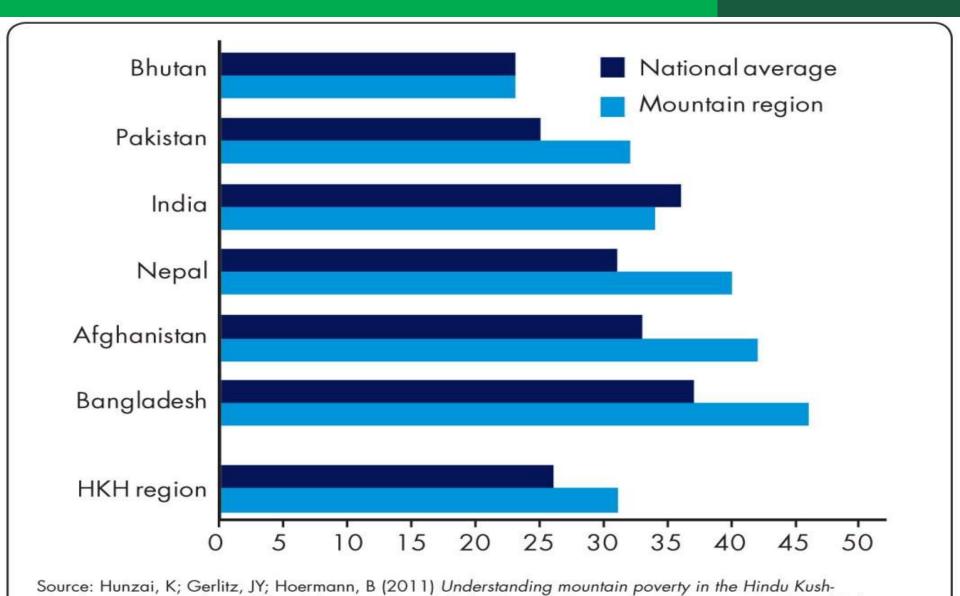


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Poverty - Higher in Mountain Region

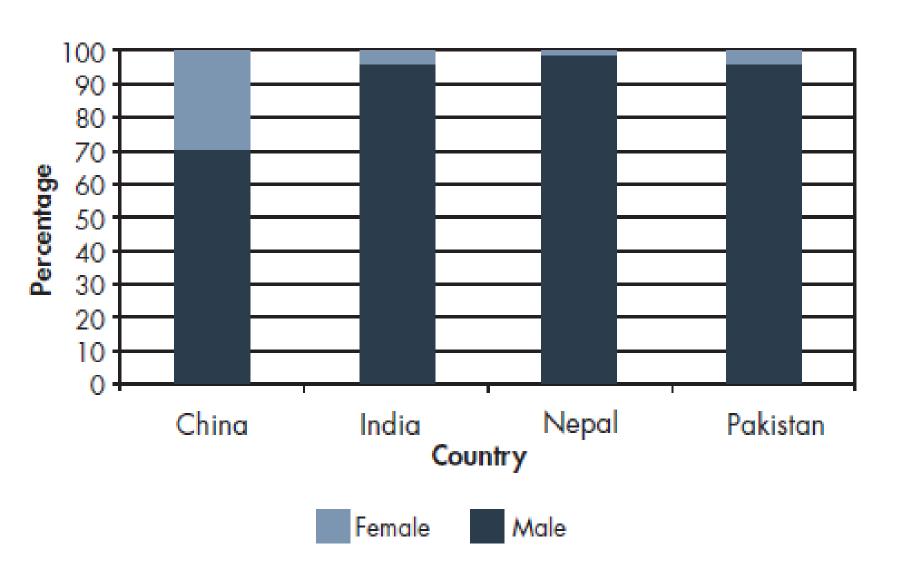




Himalayas – Regional report for Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan. Kathmandu: ICIMOD

Gendered Migration in the Himalayas





Black Carbon Mitigation- Multiple Benefits



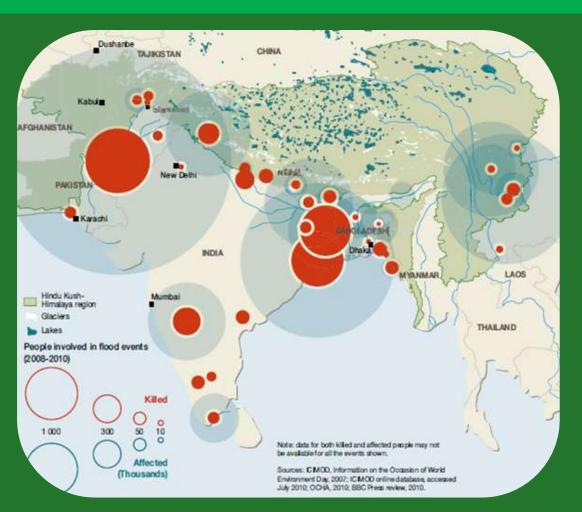


Nov to April Skies

Water and Disasters



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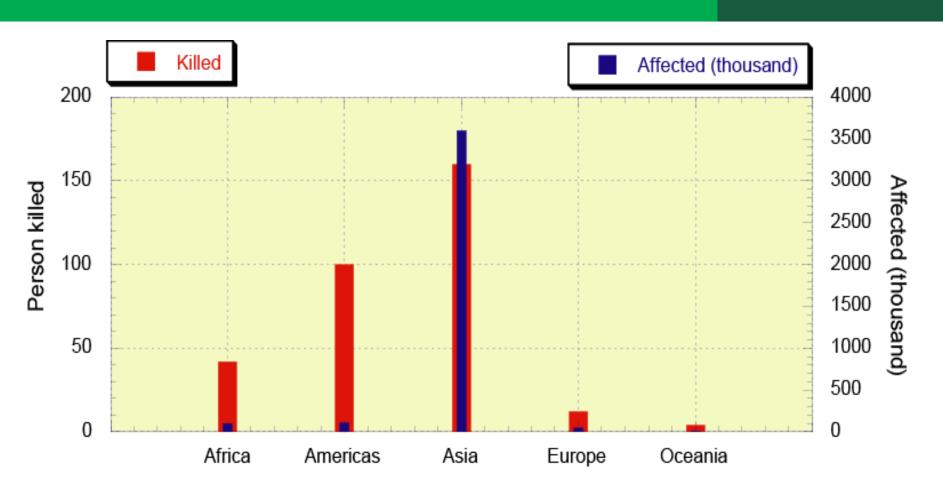


About 40% of Disasters in Asia are Flood related

Floods Kill and Affect More People in Asia than Anywhere Else in the World



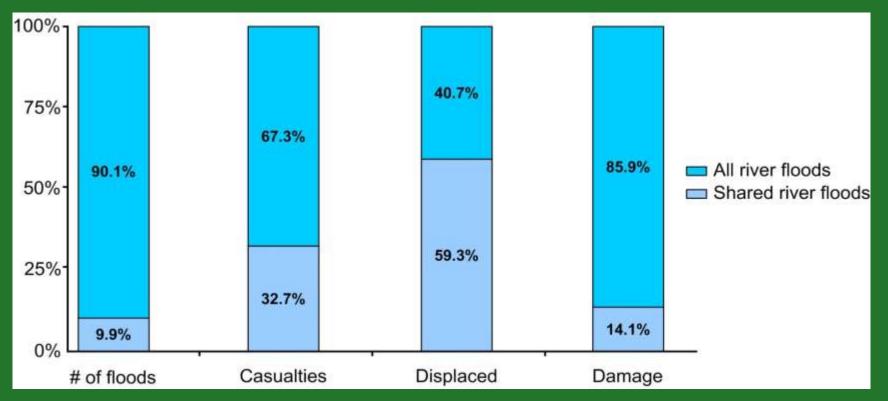
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Transboundary Floods: Shared Vulnerability Across National Borders



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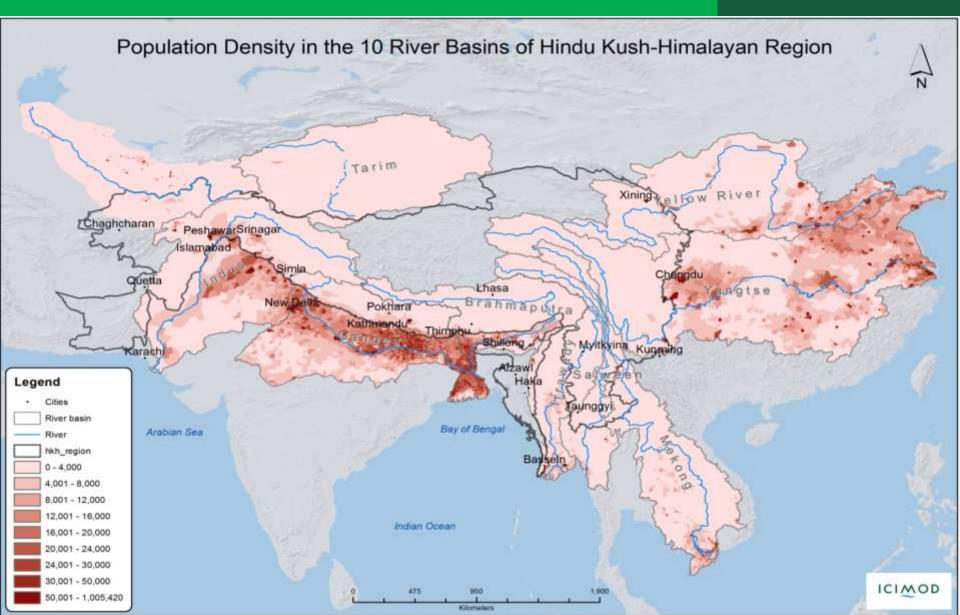


Globally, 10% of all floods are transboundary, and they cause over 30% of all flood casualties and account for close to 60% of all those displaced by floods.

Bakker, 2006

Basins support some of the most populated areas on the globe





Supports Extensive Irrigation Systems



S. Siebert et al.: Global map of irrigation areas

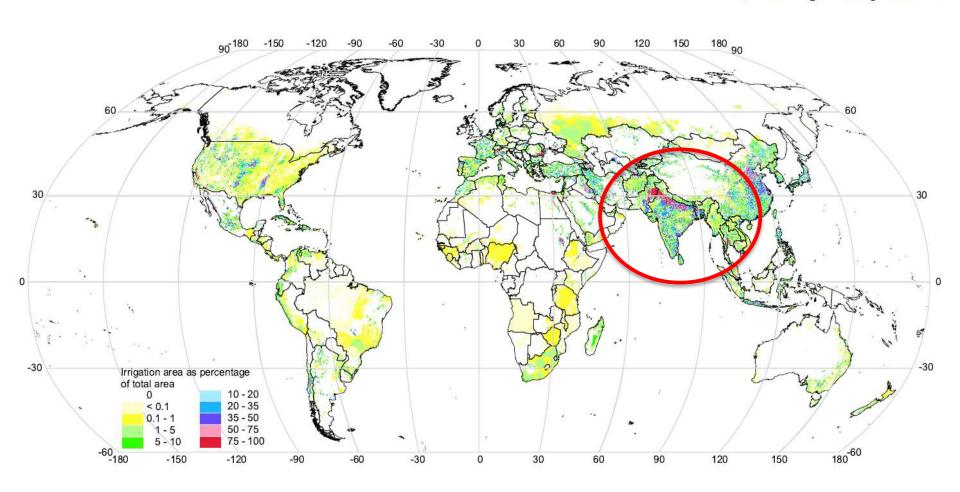
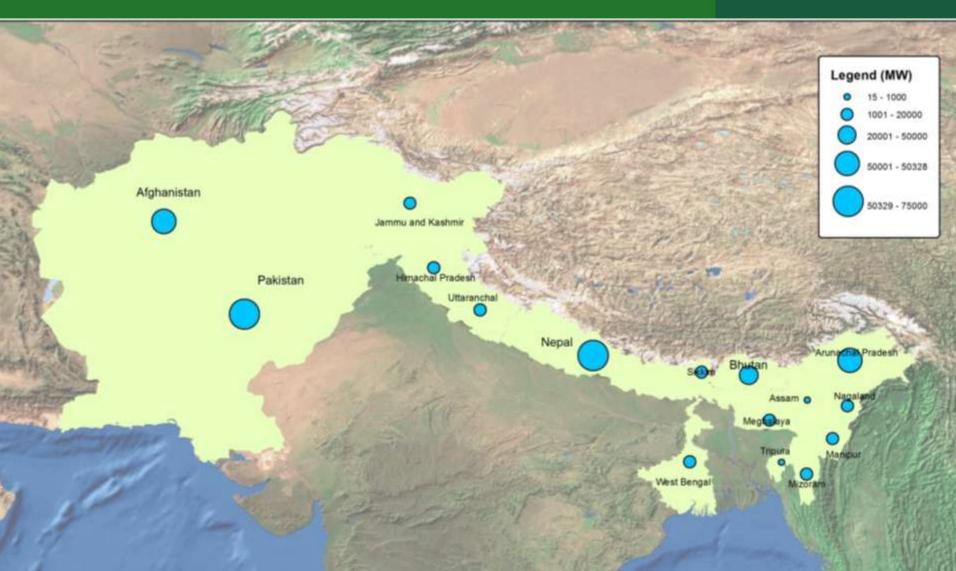


Fig. 3. Global Map of Irrigation Areas Version 3: Percentage of 5-min grid cell area that was equipped for irrigation around the year 2000 (Robinson projection).

Huge Hydropower Potential >300,000 MW

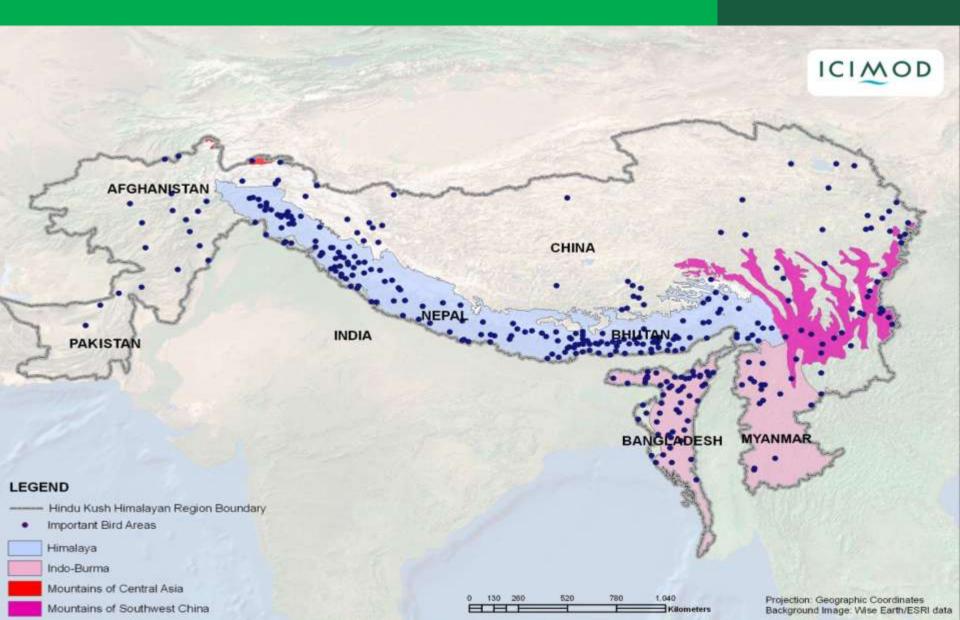


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Global Biodiversity Hotspots - 4 out of total 34 in the HKH region





1983 - A Regional Intergovernmental Institution is Born



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UNESCO facilitates the establishment of ICIMOD

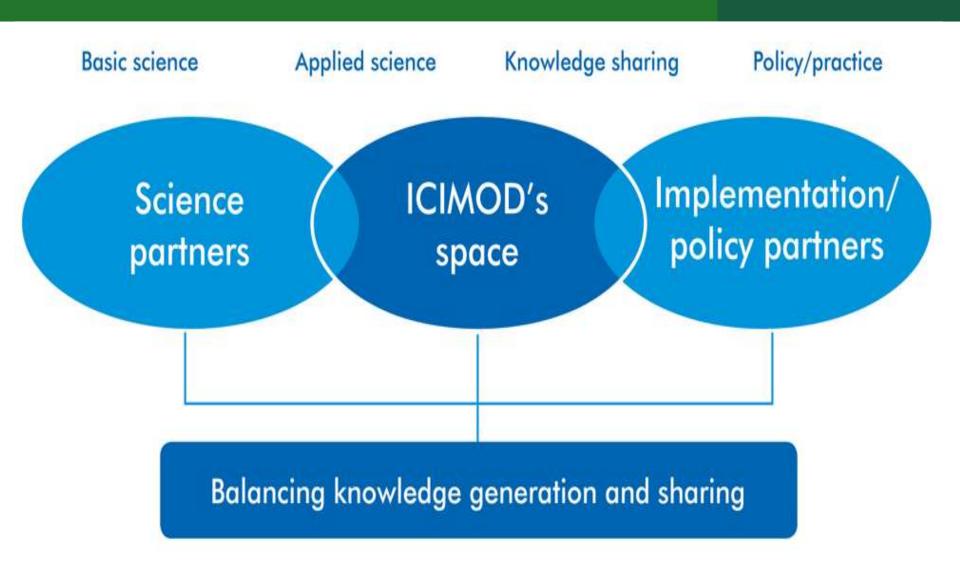
First ICIMOD Board of Governors Meet August 1983, Kathmandu

Regional Charter of HKH Eight Countries and Act of Parliament of Nepal for Headquarter Agreement

Linking Science-Policy-Practice



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Thematic Areas



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Core competency areas developed in response to the needs of the region

- 1) Livelihoods
- 2) Ecosystem Services
- 3) Water and Air
- 4) Geospatial Solution





Regional Programmes



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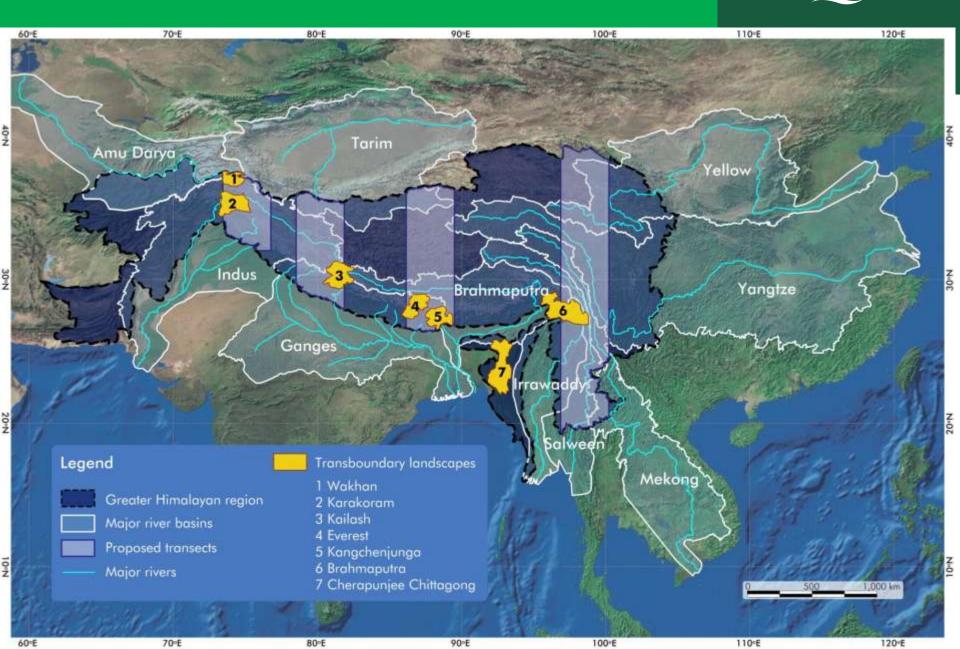
Piloting, testing and monitoring innovative approaches

- 1) Adaptation to Change
- 2) Transboundary Landscapes
- 3) River Basins
- 4) Cryosphere and Atmosphere
- 5) Mountain Environment Regional Information System
- 6) Himalayan University Consortium



Regional Transboundary Approaches

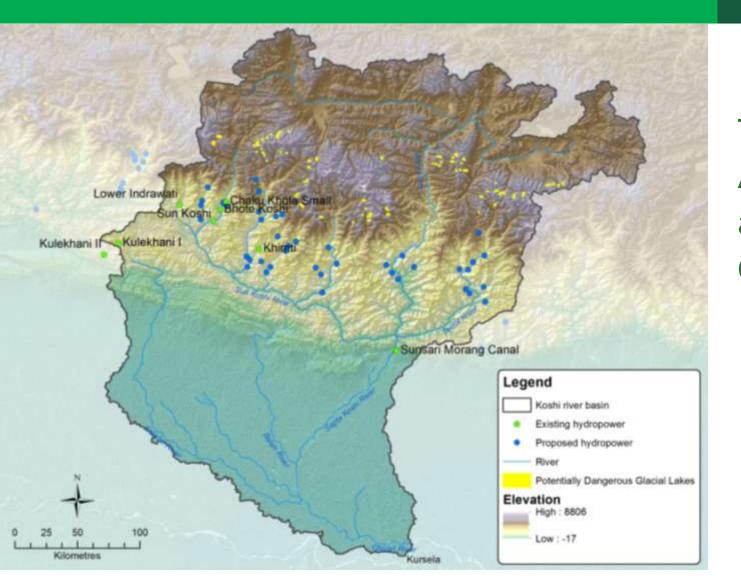




Koshi Basin: GLOFs and Hydropower



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Transboundary
Approaches
are
Critical

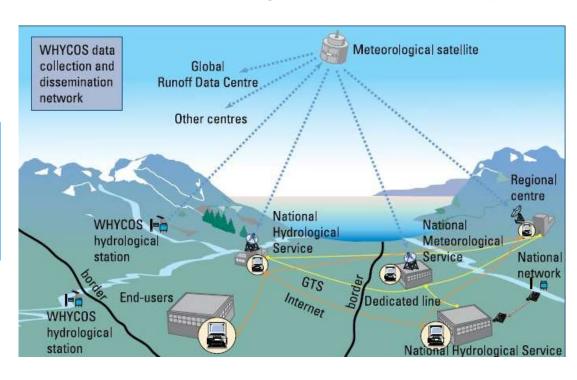
Improving Lead-time and Planning: Using technology and increasing cooperation to unravel the 'mystery' of floods



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- HKH-HYCOS
 - Establishing real-time Regional Flood Information System
 - Setting up monitoring stations and building national capacity

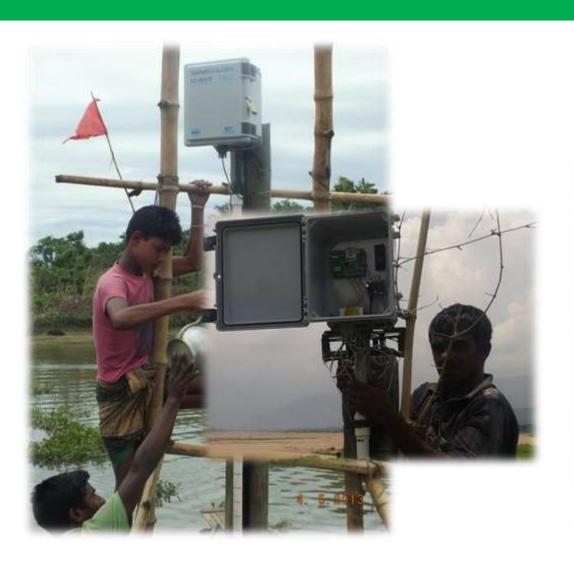
Making Information
Travel Faster
Than Flood Waters



Low-cost Early Flood Warning System in Bangladesh Using a Wireless Sensor Network



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High Valued Natural Products: A Pathway out of Poverty?



Niche Products: bay leaf, medicinal plants, honey, fruits and nuts





ICIMOD's work on value chains

Regional Reports for Global Mountain Context (Recent Ones)



- Member Ad hoc Committee of CBD Programme of Work on Mountain Biodiversity; implementation of 'Mountain Biodiversity Programme of Work' of CBD by HKH Countries
- HKH Climate Change Report; Contribution to IPCC Assessments
- Background Paper on 'Mountain Green Economy' for Rio+20
- Proceedings of the 'International Mountain Green Economy Conference' - for Rio+20
- Asia-Pacific Region Rio+20 Assessment Report
- Now, Comprehensive Assessment has been started

ICIMOD in Global Events - Mountain Perspectives and Seeking Attention



- Mountain Days in COPs of UNFCCC
- Side Events in CBD COPs
- Effort for 'Mountain Agenda in Rio+20 process
- UNCSD Mountain Pavilion
- Work with ICIMOD country governments in the preparation of Global processes, events, reports and COPs
- Organize International Conferences, e.g. Cryosphere, Bhutan+10, Biodiversity, Upcoming Poverty Conference in December
- Member of Mountain Partnership

Regional and Global Networking



- Asia Pacific Mountain Network e-conference, e-discussion, publication, photo contest, engaging youth and media etc
- Exchange between other Mountain regions of the world, e.g. sharing of Alpine Convention, Works/Conference between Himalayas and Andes, Exchange programmes such Grand Paradiso (Italy) with Sagarmatha (Nepal) National Parks
- Adaptation Network Mountain Resource Centre
- Abu Dabi Dialogue, SAWI, and Stockholm World Water Week
- Member of various consortiums on thematic topics for the Hindu Kush Himalayas

