ESRI and ICIMOD Partnership

Basant Shrestha
2 September 2021
The Hindu Kush Himalaya

Global asset for food, energy, water, carbon, and biological diversity
Linking Science, Policy, and Practice

Balancing knowledge generation and sharing

Earth Observation and Geospatial Technology and Innovation
Evidence-based decision support for planning and development at multiple levels

Mountain Environment and Regional Information System

- Improve access to data, tools, model and online mapping and visualization
- Strengthen capacity of regional partners and south-south cooperation
- Demand-driven decision support system and information services
- Foster regional cooperation and build international partnerships
Enhance resilience to socio-economic and environmental changes, including climate change

Adaptation and Resilience Building

- Community based disaster early warning system
- Climate smart agriculture
- Renewable energy solutions for mountain communities
- Springshed management
Transboundary Landscapes

Sustenance of mountain ecosystem services and equitable livelihood improvements

- Socio-ecological monitoring and assessment
- Land use land cover mapping
- REDD+ - MRV system
- Springshed management
Water resources management and disaster risk reduction in the areas of river basins and cryosphere linking up-stream and down-stream

- Regional flood mapping and flood outlook
- Integrated disaster risk management
- Glacier mapping and change analysis
- Integrated water resources management
Science-based knowledge on air quality, atmospheric processes, air pollution mitigation for improved environment and human health

- Air pollution monitoring – low cost sensor network
- Transboundary Air pollution modeling and assessment
- Air Pollution Solution - Brick-kiln mapping
- Clean cooking solutions for mountain communities
Himalayan University Consortium

Enabling regional academic cooperation and nurturing a generation of scholar-leaders for sustainable mountain futures

Our core values

- Mountain focus
- Transdisciplinarity
- Diversity
- Shared leadership

Our strength

Our academic engagement has been expanding rapidly, with members and followers across the world.

- 85+ HUC members across the globe
- 65+ HUC members across the Himalayas
- 120+ Fellows
- ~600 Individual portal users

Our network expands beyond the HKH region.

- 10+ in Europe
- 3+ in North America
- 3+ in Australia
Humanitarian GIS Award

International Centre for Integrated Mountain Development
Basant Shrestha
Sudip Pradhan

ICIMOD's Director of Strategic Cooperation Basanta Shrestha receives the Award in San Diego
Let’s protect the pulse.