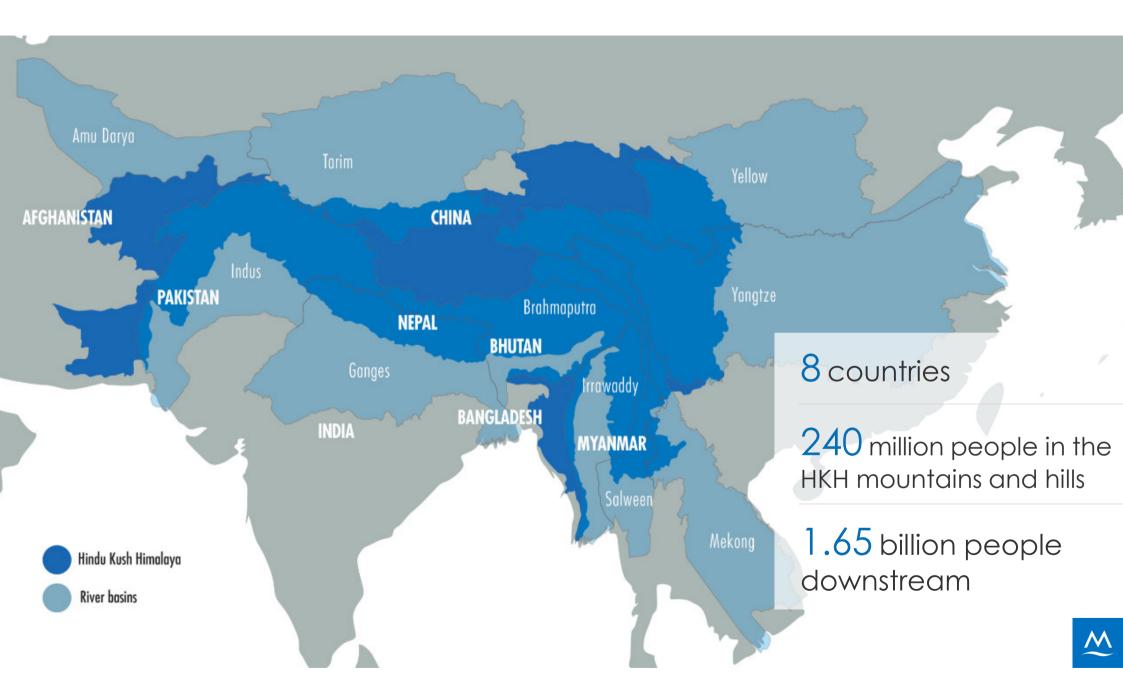
ICIMOD

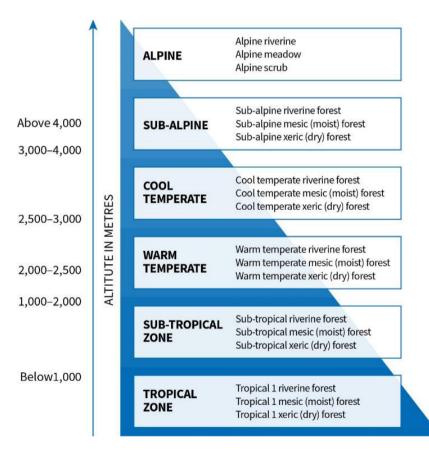
The Hindu Kush Himalaya: A repository of biocultural diversity and global biodiversity hotspots

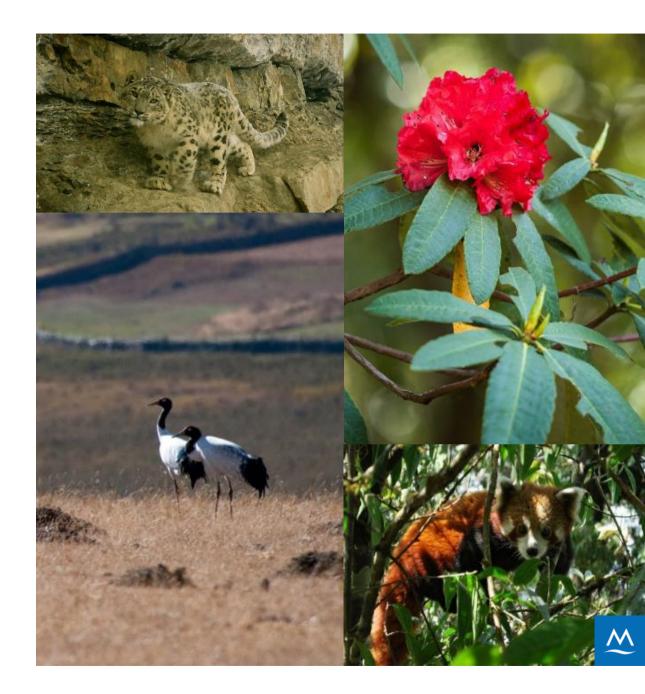
Srijana Joshi ICIMOD



**Diversity in the HKH** Over 1,000 living languages

### Vegetation zones and dominant forest types







Species discovery in the Himalaya

Leaf deer Myanmar (1999)



Smith's litter frog Assam, India (1999)



Orange spotted snakehead Assam, India (2000)



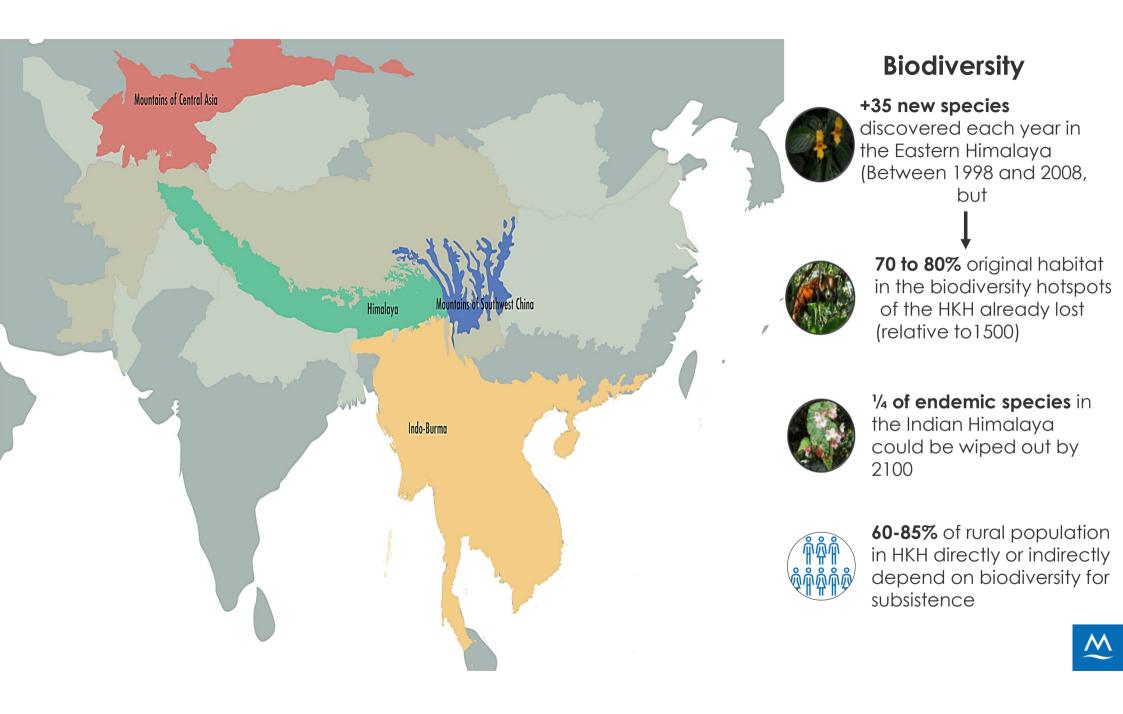
Bugun liocichla India (2006)



Dracula fish Myanmar (2009)



Saussurea ramchaudharyi <sup>Humla, Nepal</sup> (2018)



## Species diversity and endemism in the four biodiversity hotspots

Biodiversity	Himalaya	Indo-Burma	Mountains of Southwest China	Mountains of Central Asia
Plants	10,000 <mark>(3,136)</mark>	13,500 (7,000)	12,000 (3,500)	5,500 (1,500)
Mammals	300 (12)	433 (73)	237 (5)	143 (6)
Birds	977 (15)	1,266 <mark>(64)</mark>	611 (2)	489 (0)
Reptiles	176 (48)	522 (204)	92 (15)	59 (1)
Amphibians	105 (42)	286 (154)	90 (8)	7 (4)
Freshwater fish	269 (33)	1,262 <b>(553)</b>	92 (23)	27 (5)

Note: Number of endemic species highlighted in blue

# Direct drivers of biodiversity loss

Land use and land cover change

Pollution

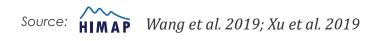
Climate change

Invasive species

Rapid urbanization

Habitat degradation

Overexploitation of resources







### Traditional and local knowledge in the HKH



Languages



Songs

Handicrafts



Folklore



Cultural values





Agricultural Health practices practices

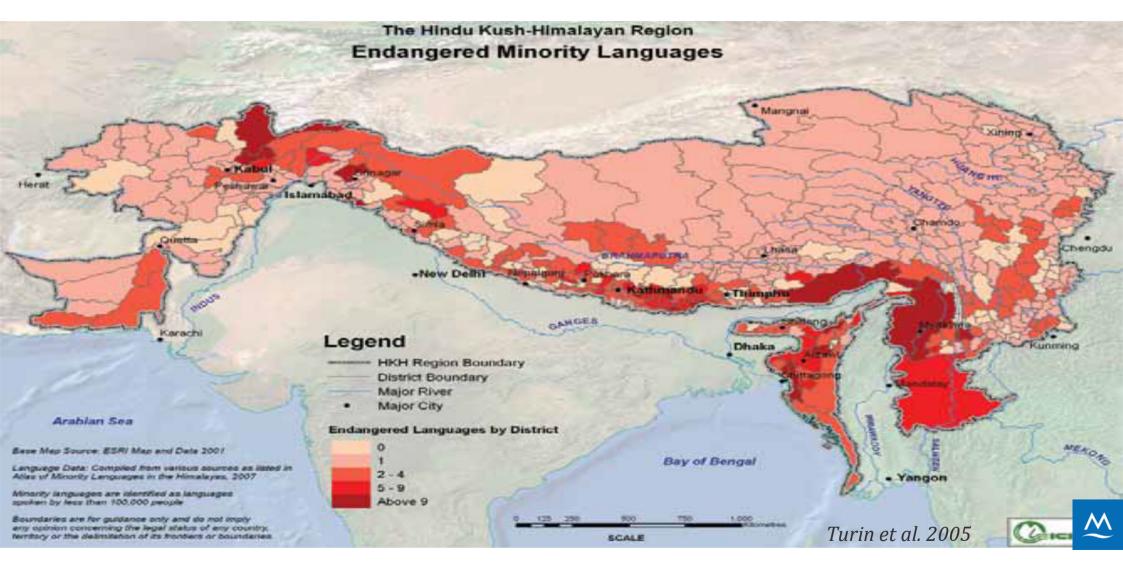
Natural resources management

The blending of cultural, religious, and traditional knowledge systems has contributed substantially to the conservation of species, ecosystems, and genetic diversity in HKH





### Linguistic diversity in HKH



# TLK in forest conservation



### **TLK related to health practices**





Ayurveda

Traditional Chinese herbal medicine "Amchi" traditional herbal healer



### **TLK in pasture and livestock management**



"Dzumsa system" Traditional self governance system for managing pasture in North Sikkim, India and "Hipsing system" in Limi Humla, Nepal



**"Ubhauli**" (upward movement of herds) and "**Udhauli**" (downward movement of herds) festival in Eastern Nepal

### **TLK in agricultural practices**



Zhum (Shifting) cultivation



Terrace farming



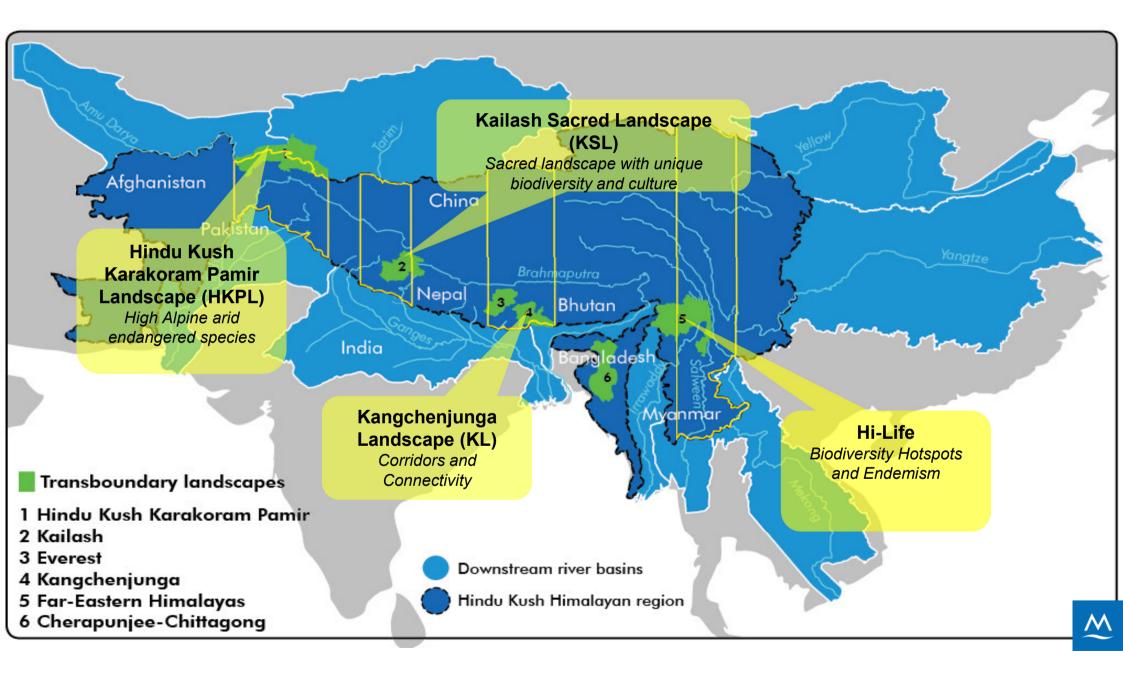
Community seed bank



'Apatani' irrigation system



Water harvesting system



#### The Hindu Kush Himalaya

Global asset for food, energy, water, carbon, and cultural and biological diversity

### Let's protect the pulse.