WEFE Nexus – An approach to protect Mountain Ecosystems

Learnings from Hindu Kush Himalaya

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HKH - A global treasure trove

240 million people depend directly on the HKH for their lives and livelihoods

1.9 billion people depend on the HKH for water, food, and energy

> 35% of the world population benefits indirectly from HKH resources and ecosystem services
600+ living languages

rich agro-biodiversity
HKH – at the forefront of Climate change

THE HKH WILL WARM MORE THAN THE GLOBAL MEAN AND MORE RAPIDLY AT HIGHER ELEVATIONS

This figure shows projected spatial distribution of annual mean temperature change (°C) over the HKH for two representative concentration pathways (RCP 4.5 and RCP 8.5) over two time periods (2036–2065 and 2066–2096).

+35 new species discovered each year in the eastern Himalaya between 1998 and 2008

1/4 of endemic species in the Indian Himalaya could be wiped out by 2100

70–80% of habitat lost in biodiversity hotspots in the HKH (relative to 1,500 AD)

RICH BIODIVERSITY IN THE HINDU KUSH HIMALAYA IS UNDER THREAT

The Hindu Kush Himalaya provides ecosystem services to two billion people, more than any other mountain system in the world.
Our WEFE nexus journey in the HKH region

International workshop
Bridging Boundaries: Strengthening Regional Cooperation Across Transboundary River Basins and Landscapes in the Hindu Kush Himalaya

Attended by more than 100 participants from over 20 countries

Kathmandu, Nepal (15 – 16 November 2018)
WEFE nexus for the Hindu Kush Himalaya
The draft WEFE nexus framework was shared with scientists, specialists, managers, conservationists, policy-makers and development professionals in webinars, workshops and science-policy dialogues.
WEFE Assessment Process

1. Socio-economic & environmental context
2. Analysis of key stakeholders
3. Analysis of key sectors & resources
4. Intersectoral issues
5. Nexus Dialogue
6. Solutions and benefits

Analysis of basin (with socio-economic and environmental indicators)

Desk study: Review of literature & Questionnaire based Surveys

Active engagement (workshops and follow up meetings)

Limited quantification (with indicators)

Consolidate Analyses

Identification and analysis of key sectors, resources, resource uses, stakeholders and governance systems (institutions, laws, rules, policies, plans, strategies) of basin / study area

QBS2 - Opinion based questionnaires

Documentation of facts
Review of available information
QBS1 – factual questionnaires

Basin report: Nexus issues, solutions, strategies and benefits (Nexus Proposal)
WEFE Nexus in HKH – timeframe

Documentation

Analyses

Consultation & Follow ups

Piloting and Implementation

1. WEFE Nexus - HKH Conceptualization

2. WEFE Assessment (Socio-economic, climatic and ecological analysis)

3. Sector and stakeholder mapping & analyses

4. Resource flow analysis, challenges and opportunities

5. Nexus workshop (Identifying nexus issues, solutions and strategies) – Nexus Proposal

6. WEFE Nexus Piloting

Implementation
Thank you

Protect the pulse.