Community and Ecosystem based Adaptation: *Experiences from the Hindu Kush Himalayas*

Dhrupad Choudhury Regional Programme on Adaptation to Change

International Centre for Integrated Mountain Development

Kathmandu, Nepal

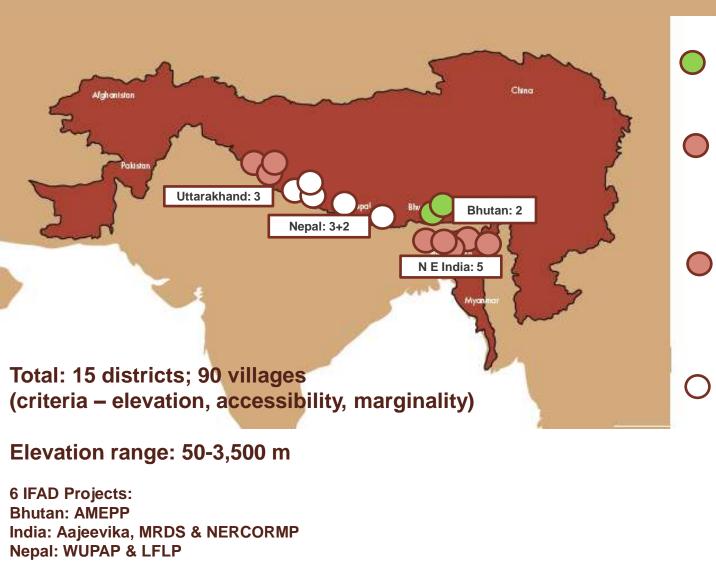
Asia Pacific Adaptation Forum 2014 Kuala Lumpur, Malaysia 1-3 October, 2014

Community and Ecosystem based Adaptation: Basic Tenets



- 'Two sides of the same coin'
- Issue of 'Supply and Demand' management
 - Ecosystem services
 - Provisioning
 - Regulating....
 - Community Adaptation
 - Livelihood security
 - Risk management

Participatory assessments: The canvas



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Survey districts Bhutan Pemagatshel Trashi Yangste

India *Uttarakhand Almora Bageshwar Tehri*

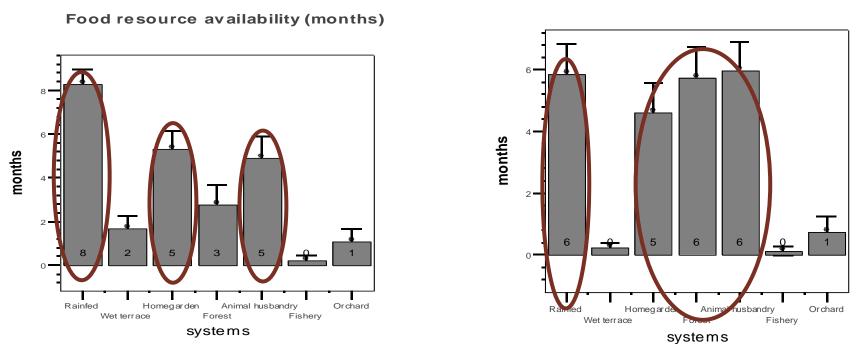
NE India W Garo Hills E Garo Hills Ri Bhoi Karbi Anglong Ukhrul

Nepal (Mid-west) Humla Bajhang Dailekh (West & East) Tanahu Terathum

Reality Check Support Systems for food & income (dependencies)

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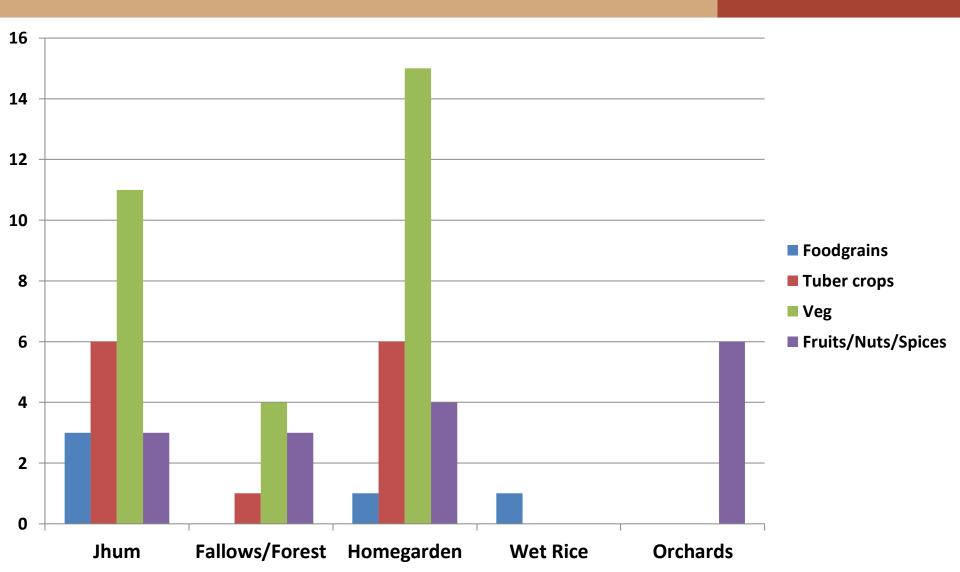
Rainfed agriculture, homegardens, animal husbandry & forests critical support systems for rural communities in the mountains,

despite the strong policy focus on irrigated systems and plantations.

Income resources availability (months)

Resource availability (no. of crops) from different systems

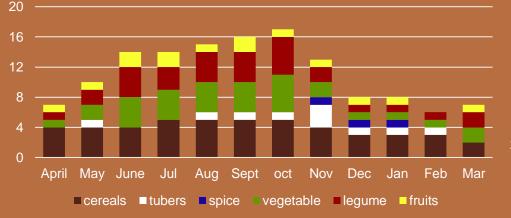




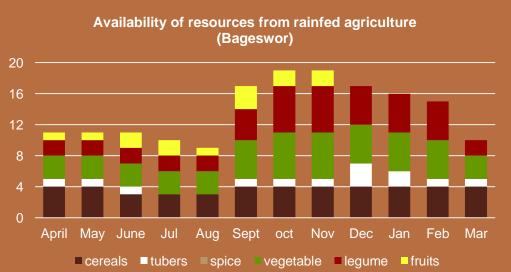
Seasonal resource availability (Diversity): Rainfed system (No. of crops in each category)

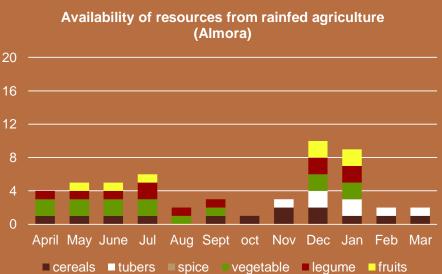
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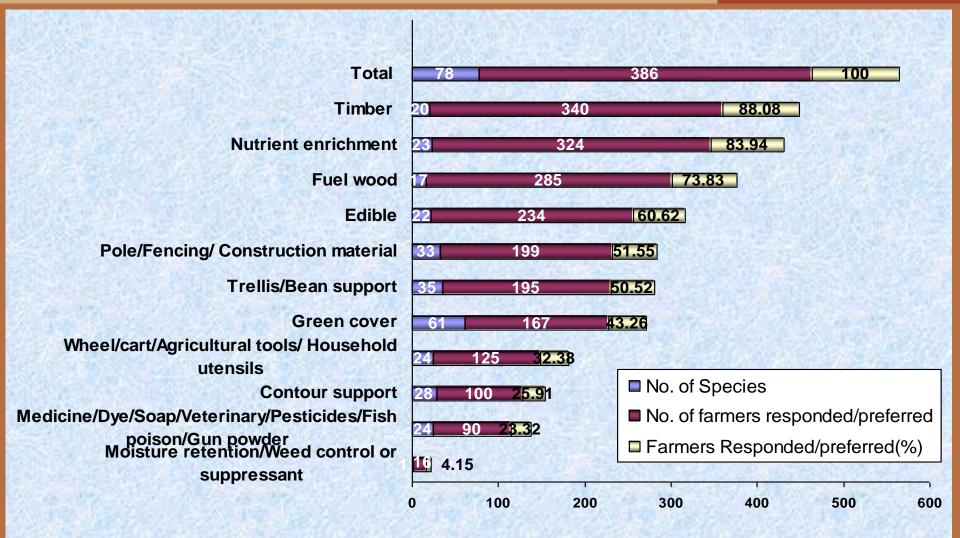


Availability of resources from rainfed agriculture (Tehri)



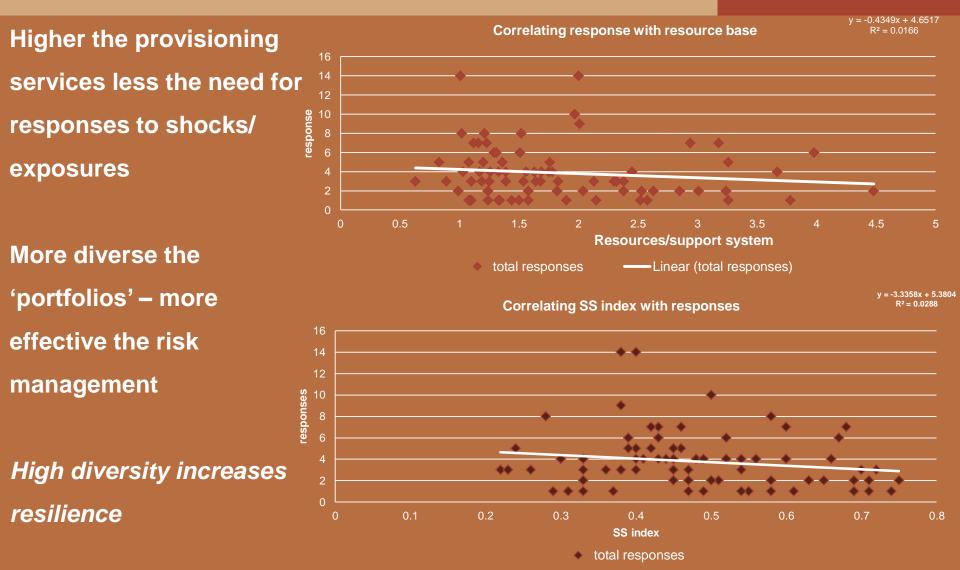


Utility value of tree species retained in fallows at clearing (Ukhrul, Manipur)



Assessing adaptive capacities: Correlating responses with resource base & Support System Index

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Managing Change: *Perspective Land Use Mapping* (Garo Hills, India)

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Managing land use change in shifting cultivation areas

- Accommodating livelihood and income needs
- Participatory resource management at the landscape level
- Promoting community management and conservation of forests, water, and ecosystem services



Grounding EBA and CBA: Managing Change in Shifting Cultivation -Participatory 3D

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"I have been with the Nokma for over 50 years...this is the first time my A'khing has come alive in front of my eyes..."

Gonath Sangma, Nokma Traditional custodian, Sasatgre





Livelihood Diversification Options: Building on existing resources with comparative advantage

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Income enhancement and diversification through Value Chain approaches:

- Promotion of niche products from mountain systems
- On-farm and non-farm opportunities
- Market linkages
- Access to commodity pricing
- Support services
- Extension and technical services



ROYAL GOVERNMENT OF BHUTAN **VENT OF AGRICULTURE** CULTURE AND FORESTS MON FACILITY CENTRE FOR MEDICINAL & AROMATIC PLANTS

Location

Funded by

Bji Zam, Nubi Geog, Trongsa Implemented by : Horticulture Division in collaboration with ICIMOD, BAOWE and Dzbrigkhag Administration, Tronosa







Improving Institutional and governance mechanisms - Consultative policy engagement process

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Adaptation Learning Highways:

Process framework for facilitating:

A horizontal and vertical exchange of information and knowledge to strengthen

- informed decision making
- making local governance more responsive; and
- to contribute to effective local adaptive strategies formulation

Implemented in India and Nepal (supported State Action Plan for Climate Change Adaptation of Uttarakhand, India)



Community-Scientists Interface Forum (CSIF)

Knowledge exchange
Identification of promising adaptive mechanisms
Designing participatory M&E framework
Result sharing, dissemination and upscaling framework



State/Regional Consultative Workshop for formulating adaptive strategies

•Share findings, concerns and learning •Policy action recommendations •Formulation of policy support for upscaling



C2C Knowledge Exchange Forum (C2C KEF)

Knowledge exchange
Peer verification
(acceptance)
Peer assessment
Gap identification and need
assessment (support
services required)

Forum for exchange and interaction with local decision and policy makers (FIP)

Share issues, concerns and gaps in support system
Identify means to make system more responsive
Identify existing programmes and institutional mechanisms that can respond to community concerns
Identify policy action



In conclusion...



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 Communities fully recognise the centrality of ecosystem services for ensuring adaptation and livelihood security

 Strengthening partnerships with communities central to synthesis of CBA & EBA

Thank you

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