HICAP – Himalayan Climate Change Adaptation Programme

Backdrop

Sub-basin level

Historical trend analysis

Collection of data and information

Dynamic downscaling

Statistical/stochastic downscaling at strategic points

Scenario development and assessment

CLIMATE CHANGE SCENARIOS

Downscale and customize climate scenarios for the region

Ensure that the design, development and delivery of knowledge and information from the project components are congruent and are addressing the different audiences' needs

Provide decision makers at different levels with relevant, state-of-the-art information, knowledge and tools that are strategic and policy-oriented

Ensure that information and knowledge gathered or generated by a component are shared, aggregated and customized for different audiences

HICAP

COMMUNICATION AND OUTREACH

Share tailored information and knowledge to contribute effectively to policy processes

Collate data and information

Integrate and use peer-reviewed international models

Develop methodology for water availability and demand analysis

Develop and validate models at pilot catchment scale and up-scale to sub-basin and larger scales

Assess the impact (direct and indirect) in water-related sectors

WATER AVAILABILITY AND DEMAND SCENARIOS

HICAP

Enhance the **resilience** of mountain communities, particularly women, through improved understanding of vulnerabilities, opportunities, and potentials for **adaptation**

Identify and pilot gender profiles

Strengthen capacity and develop women's leadership skills

Conduct case studies and action-oriented research

Carry out scoping studies, exploratory missions, stakeholder consultations, needs and gap assessments at different levels

WOMEN AND GENDER IN ADAPTATION

Analyse differences in adaptation between women and men, and strengthen women's capacity to adapt

Identify and assess drivers of change, trends and projected climate change impacts on ecosystems and ecosystem services

Quantify and valuate ecosystem services

Link regional and local changes to recommendations for adaptation strategies and methods

Provide inputs into the development of strategic options and management interventions to enhance the sustainability of ecosystem services

Assess contributions of key drivers to land cover and land use dynamics and develop strategic management interventions for the sustainability of ecosystem services

ECOSYSTEM SERVICES

Generate actionable knowledge to inform policies in support of community adaptation

Understand the root causes and socioeconomic dimensions of food insecurity and the impacts of climate change on households

Crosscutting components

Assess vulnerability and capacity across the region to establish a baseline

Review current and future national adaptation strategies and their relevance to community level

Assess and validate current and promising adaptation practices at the community level through action research and pilots

VULNERABILITY AND ADAPTATION

Conduct policy analysis and impact analysis of selected policy changes; disseminate information and policy relevant knowledge

FOOD SECURITY

Analyse food security, livelihoods and vulnerability at the household, community and regional levels

Identify the biophysical and socioeconomic drivers/factors

Document local coping and adaptation strategies

Explore innovative options and opportunities for enhancing community resilience in food security

Analyse policy and institutional options and innovations to reduce climate risks and uncertainties in food production and food security

Local community level