

# Indian Himalayas Climate Adaptation Programme (IHCAP) *An Overview*

14 December, 2012  
CSE, New Delhi

# The Himalayan Region

- Eight Countries- Afghanistan, Bangladesh, Bhutan, China, India Myanmar, Nepal and Pakistan
- Nine large Asian river systems – The Indus, Ganges, Brahmaputra, Irrawaddy, Salween ,Mekong , Tarim , Yangtse and Yellow River
- 1.5 Billion People depend on Himalaya for Water, Food and Energy
- Himalaya, the highest mountain range and most populated mountain systems in the world
- Area: 4.3 million sq km (Approx.)
- Largest Bodies of Ice Outside Polar Caps 3,735 sq km; eternal ice & snow (3,250 cubic km fresh water) Himalayan Glaciers- 17 % of global Mountain Area

# The Himalayan Region

- Fragile, complex, unique in geomorphology, sensitive to climate change
- Rich in Natural Resources
- Biological Diversity
- Predominant Source of fresh water
- Socio-Cultural & Ethnic Diversity

# Himalayas and Vulnerability

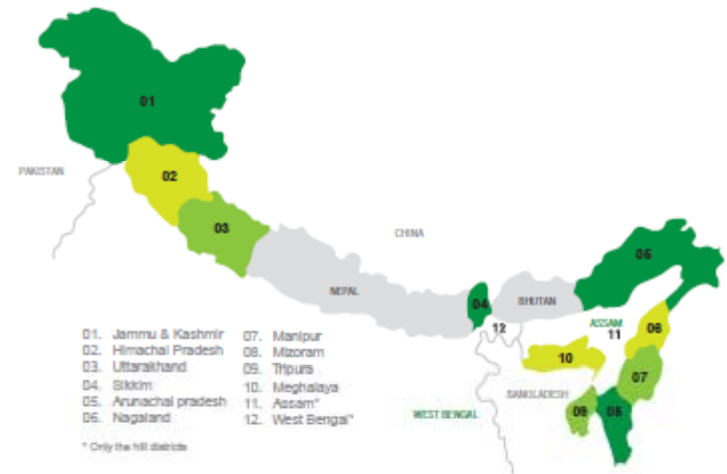
- The net increase in temperature ranges from 1.7°C to 2.2°C with respect to the 1970s by 2030.

- The projected precipitation is likely to increase by 5% to 13% in 2030s with respect to 1970s.

- The intensity of rainfall is likely to increase by 1–2mm/day. (Source: 4X4 Assessment)

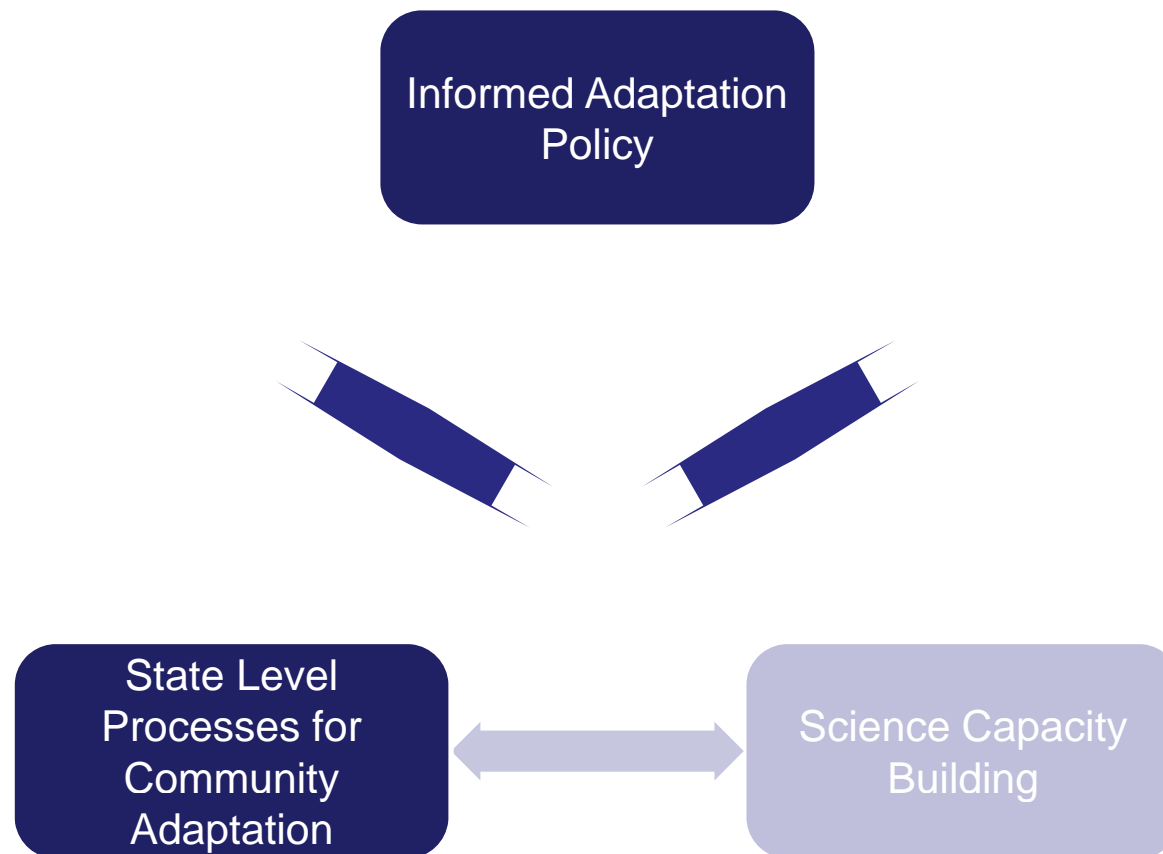
- Climate change is likely to impact both natural and social systems including communities in the Himalayan region. (Source: G-SHE)

- In order to respond India has initiated the National Mission for Sustaining the Himalayan Ecosystem (NMSHE)



## IHCAP Goal

To strengthen **resilience** of **vulnerable communities** in the Indian Himalayas is connect and enhance **knowledge and capacities** of **research institutions, communities, and decision-makers**



# IHCAP Objectives

IHCAP is based on MoU between Government of India and Government of Switzerland for Joint Cooperation on Science & Technology

IHCAP works with the national country systems of DST and aims at synergizing SAPCC and NMSHE platforms

**To strengthen the ability of Himalayan states to adapt to climate change. IHCAP is currently working with Himachal Pradesh Government.**

**To build capacities of stakeholders to better understand the scientific dimension of climate change dynamics using NMSHE platform.**

**To facilitate review and integration of climate change aspects in development policies, plans and action in Himalayan States using NMSHE and SAPCC platforms .**

# Strategy for State Level Processes

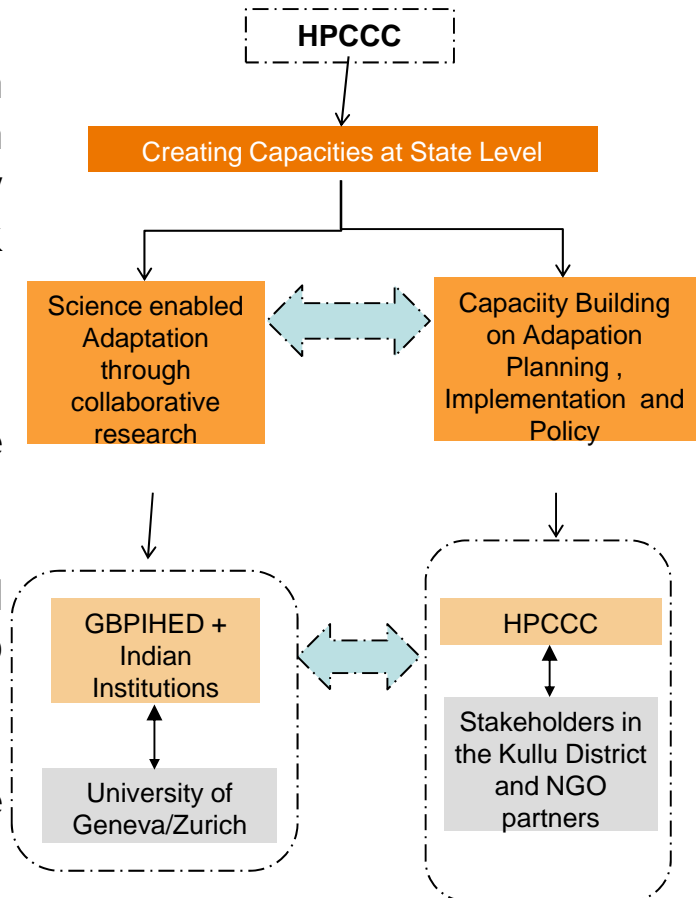
## ■ Creating Capacities for State Level Processes on Adaptation Planning, Implementation and Policy:

■ Strengthen the capacities of Himachal Pradesh Centre for Climate Change (HPCCC), Indian Scientists and Institutions on vulnerability assessment, climate impacts, disaster risk reduction and adaptation planning.

■ Build capacities of state and sub-state level actors on the processes of developing and the implementation of adaptation measures and solutions.

- Research studies, field experience and community participation in Kullu district to guide processes.
- Dialogue between communities and government stakeholders at district and state level.

■ Staff two adaptation specialists in the Field Unit to be based in Himachal Pradesh

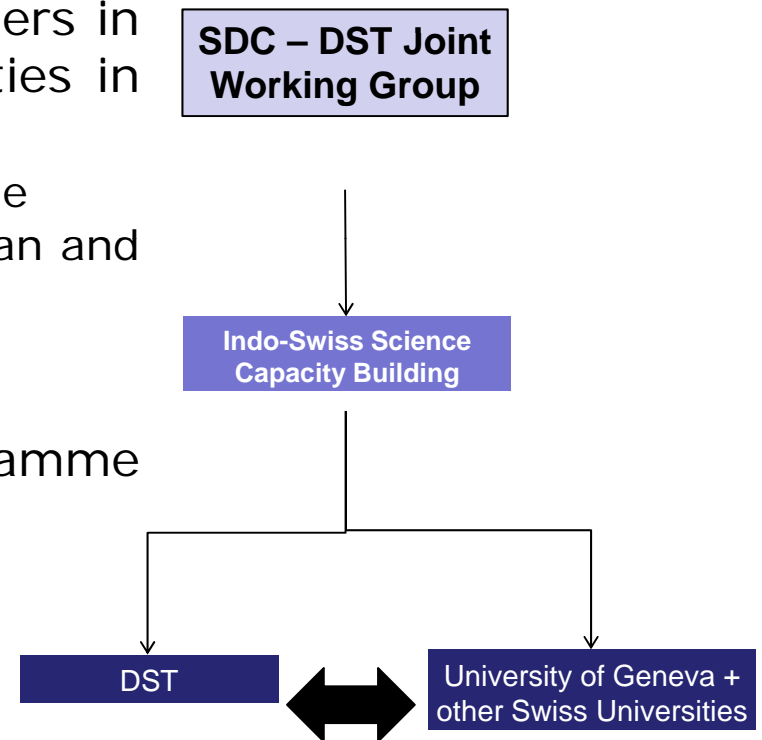


# Science Capacity Building

■ Build capacities of scientists and researchers in key national and state institutions/universities in the field of climate change science.

- Three Levels of Capacity Building Programme
- Module and Course jointly designed by Indian and Swiss scientists
- JNU as the host institution for the courses

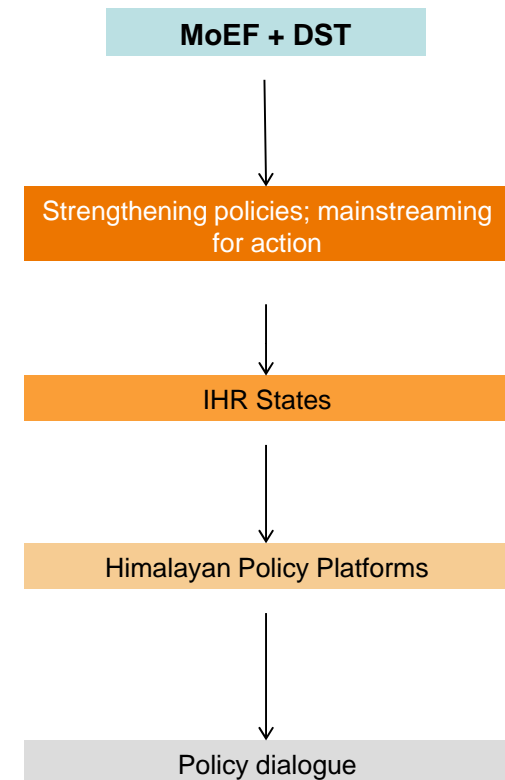
■ Position staff in DST to facilitate programme implementation





# Mainstreaming Policies for Action

- Strategic linkages with key central government stakeholders agencies (MoEF and DST) on climate adaptation policy in the IHR
  - Linking IHR states and national level agencies on the existing policies, plans and actions on climate change adaptation.
  - MoEF - UNDP Platform for State Action Plan
  - Policy analyses on key issues concerning climate change adaptation in IHR.
- Supporting and strengthening existing policy platforms
  - Create channels for bringing field experience and science capacity building to shape and inform policies.
  - Knowledge management tools for dissemination of lessons learnt and replication and up scaling of good practices.
- Position staff in DST and in Himachal Pradesh to facilitate programme implementation



# Thank You

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