

An aerial photograph of Bhutan, showing a vast landscape of mountains and valleys covered in dense, white clouds. The sky is a pale blue. In the upper right corner, the wing and tail of a white airplane are visible, indicating the photo was taken from an aircraft. The text is overlaid on the center of the image.

# Bhutan-Capacity Building

Karma Chhophel  
Hydro-met Services  
Thimphu: Bhutan

# Framework

- Resolving the climate change and water cycle
  - Demonstration projects under Asian Water Cycle Initiative

# Needs Assessment

- What are the possible climate change impacts on the country's water resource ?
- The objectives and expected outputs of the proposed demonstration project.

# Impacts – Bhutanese Context

- Floods including flash floods due to
  - Glacial lake bursts (GLOF's)
  - Cloudbursts
  - Landslide dam bursts
- Drought

# Our Need

- Flood Forecasting and Early Warning Systems at the regional, national and local levels

# Resources

- Material resources
  - Strengthening of the observational network
  - Hardware & software support at the implementation level
- Human resources
  - Capacity building in data integration, modeling and downscaling to local conditions
- IWRM capacity at local level such as awareness generation, information dissemination.

# Concrete proposal

- National Adaptation Programme of Action (NAPA) due to climate change impacts on water resources
- Finalization of the requirements based on identification of a river basin for the demonstration project

# Finally

- Let us not keep water away from the people, but people away from the water and
- Let us strive hard to make flood information travel faster than flood waters

*Tashi Delek*