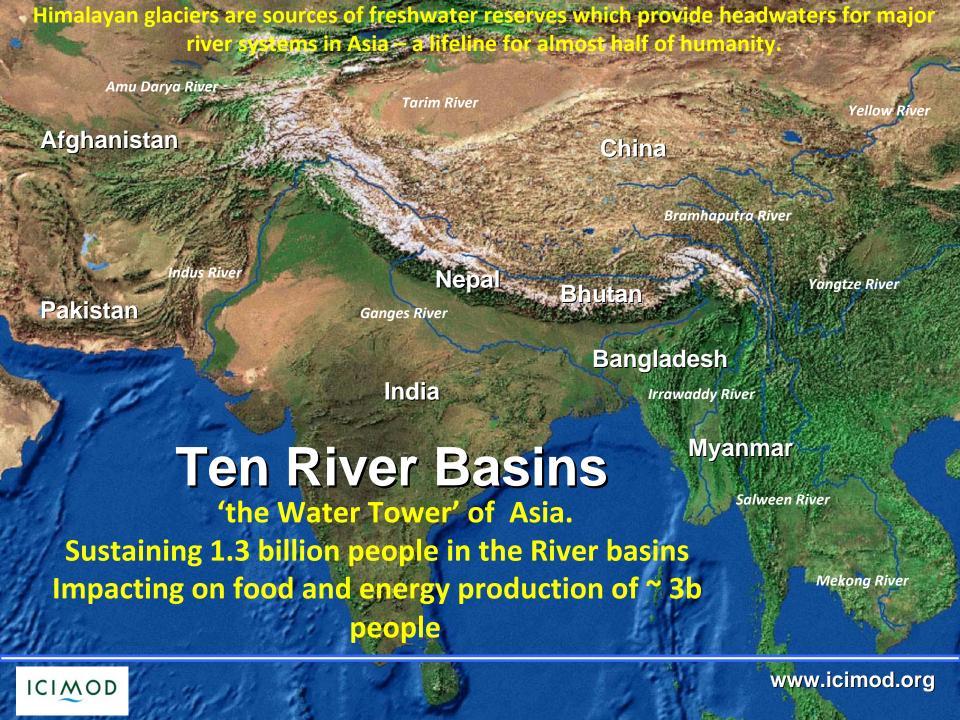


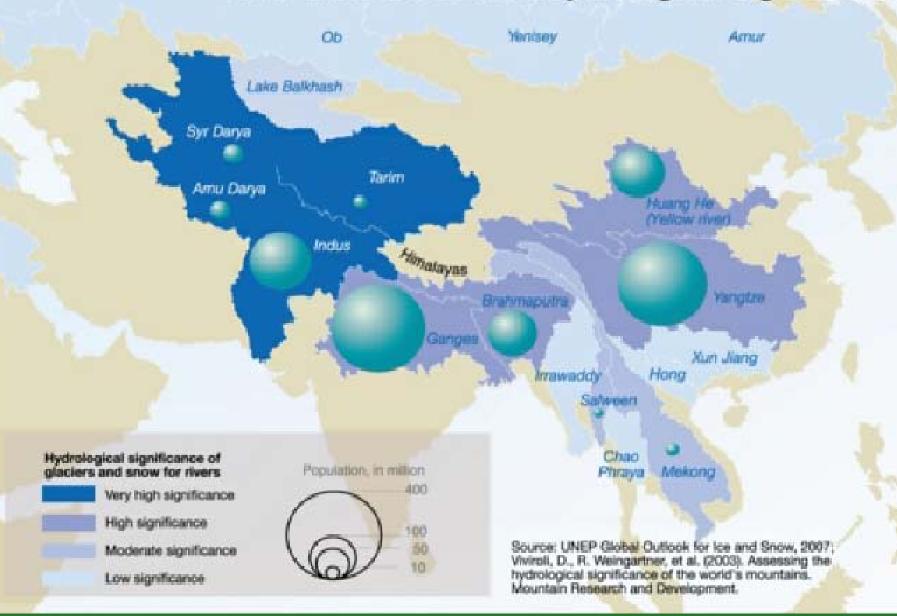
# Regional Water Governance Strategy in Hindu Kush Himalaya Region

International Centre for Integrated Mountain Development

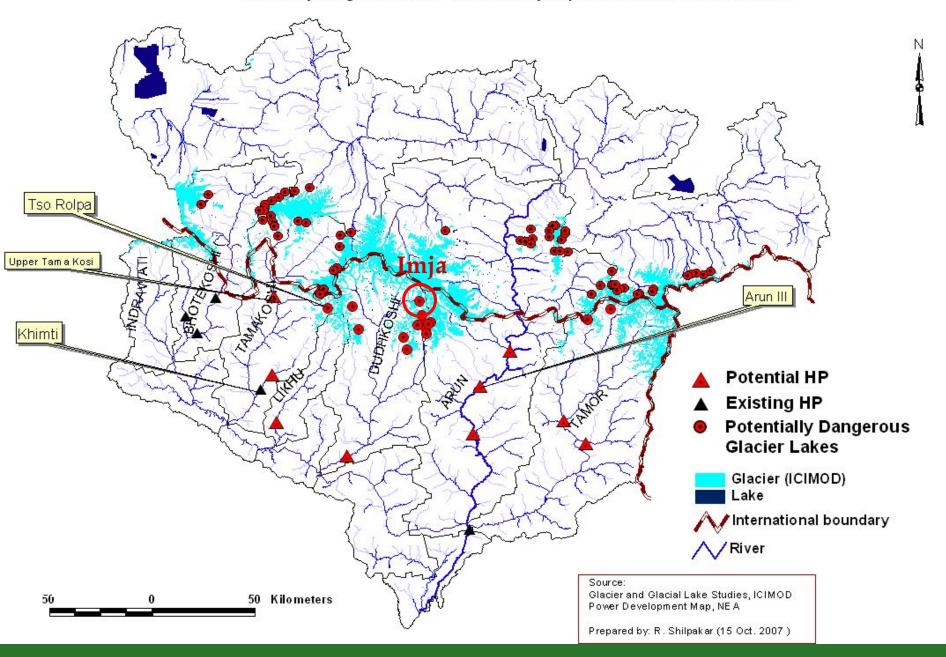
Kathmandu, Nepal



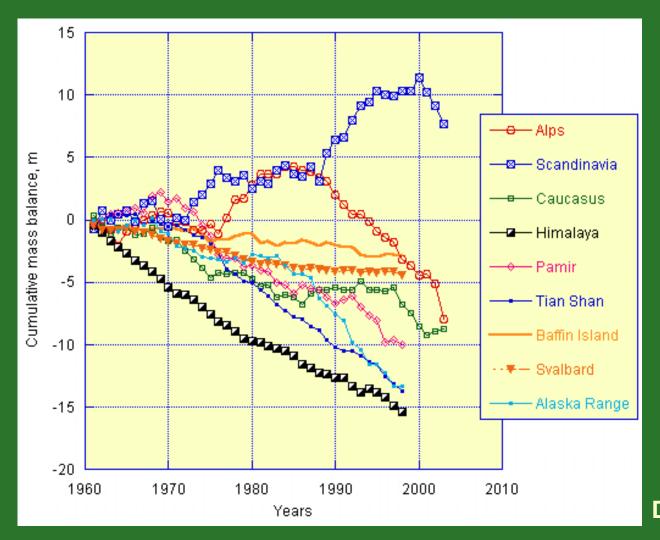
### River basins and their hydrological significance



#### Potentially Dangerous Glacier Lakes and Hydropower Stations in the Kosi Basin



## Changing Glacier Mass Balance



Himalayan glaciers are shrinking more rapidly than elsewhere

**Dyurgerov and Meier, 20** 



## Climate Change Impacts on Water Resources



FOR MOUNTAINS AND PEOPLE

- As glaciers melt, river runoff will first increase and then decrease;
- Extreme events already on the rise;
- Likely shortage scenario for downstream agriculture and other users
- Wellbeing of about half billion people in the HKH region including China will be affected.



FOR MOUNTAINS AND PEOPLE

## 1. River basin approach

- Integrate IWRM with IRBM
- Promote co-operation between the physiographic regions through ecosystem management & market chains
- Enhance local socio-economic development and community participation in local decisions;
- Implement mechanisms for allocation of water rights within the river basins;
- Develop domestic capital markets and partnership with private sector for risk management

# 2. Promote Regional Economic Co-operation



FOR MOUNTAINS AND PEOPLE

- Co-operation in water should be part of the broader regional economic cooperation framework with focus on water;
- Enhance co-operation between upstream - downstream countries as producers and consumers of ecosystem services;

# 3. Use problems as opportunity



FOR MOUNTAINS AND PEOPLE

- Drivers like climate change and globalization have added new dimensions and opportunities for regional cooperation;
- Supply augmentation through water storage (both natural and human-made) should be part of IWRM/IRBM.
- Increase role of knowledge hubs in documenting and sharing good policies and practices.

