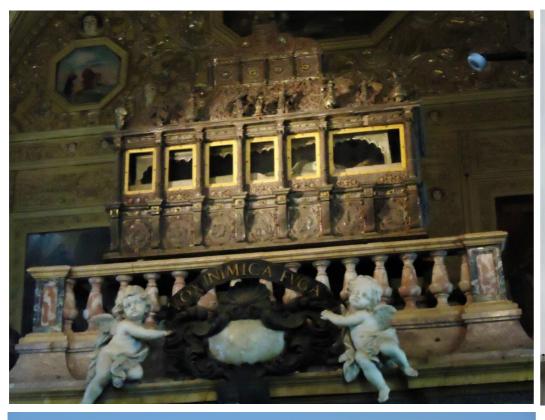
# Exchange of experiences

Archana J. Sustainability of Hani Rice Terraces. HIST Seminar, Beijing 2016









### Sustainability

#### Honghe Hani Rice Terraces



Archana J. Sustainability of Hani Rice Terraces. HIST Seminar, Beijing 2016



Historical rainfall(1998-2007)

Future rainfall (2030-2040)

Availability estimation

> Similar Hydrologic Element Response model

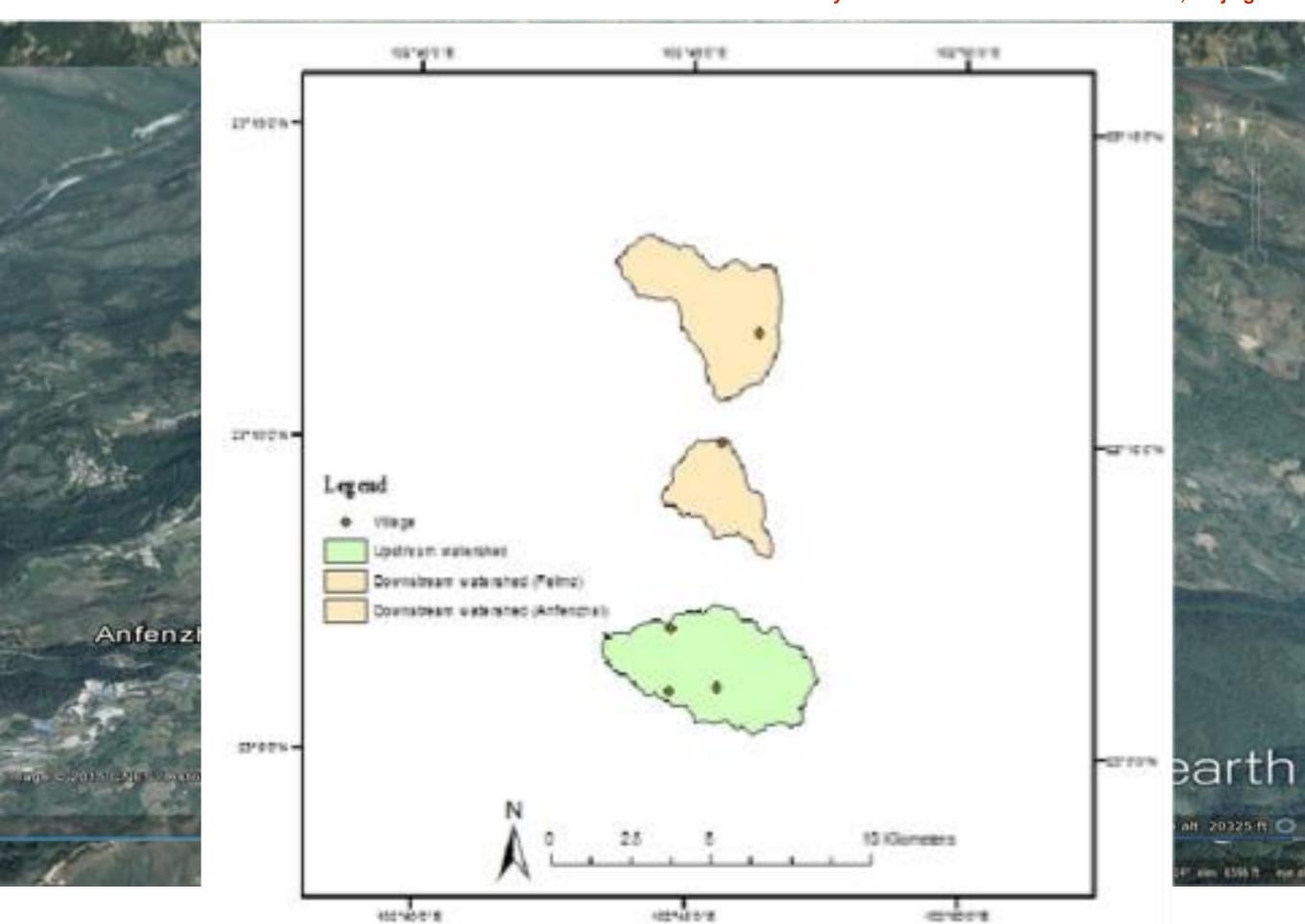
Demand estimation

Four major sectors: Domestic, Agriculture, Livestock and Tourism (specific to the upstream watershed) Balance

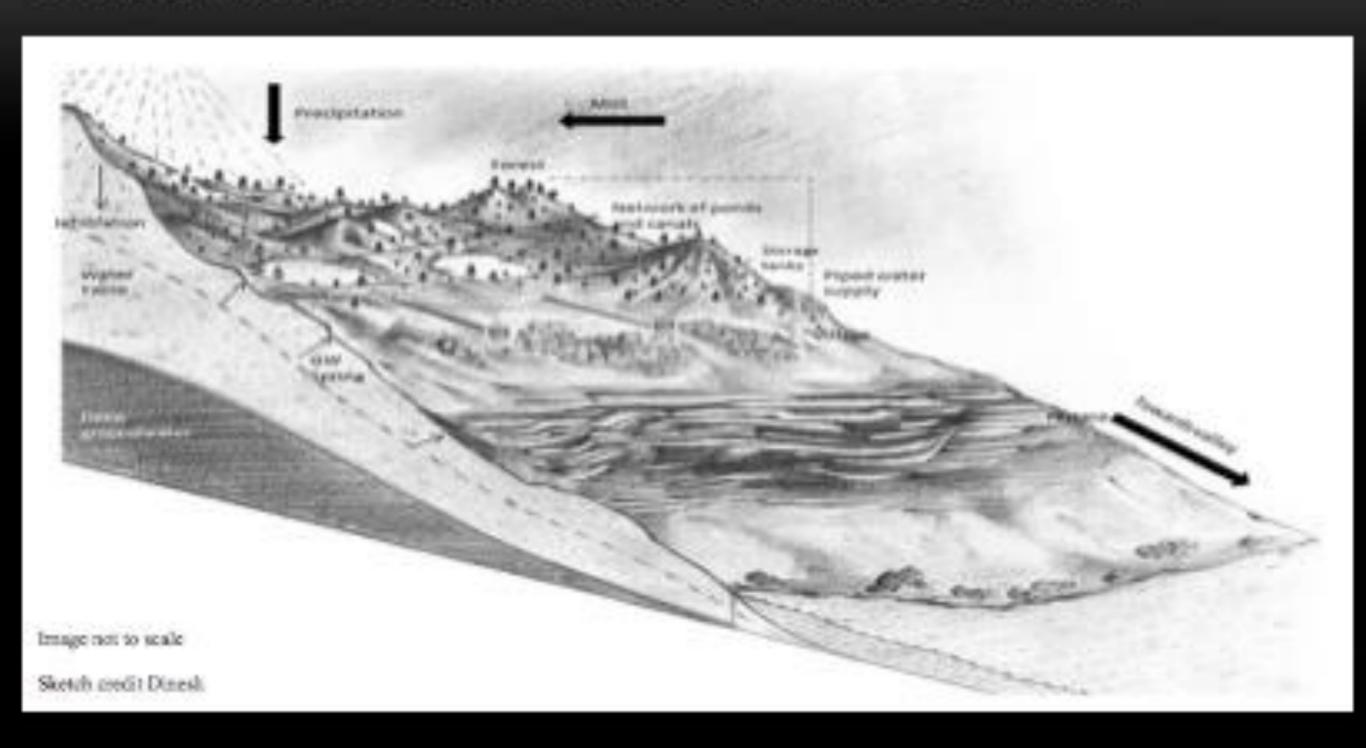
Water Scarcity Index Demand: Availability Management of overall change

> Threats analysis: System, Social, Policy

Structural and Institutional methods of management



#### CONCEPTUAL DIAGRAM OF WATER SYSTEM



Historical Estimates	Feb-Apr: instances of moderate scarcity seen in the upstream areas. Coordinated storage regime effective Downstream: Clear pattern in Rws values. Feb-Mar instances of moderate scarcity External effects have not been considered
Future Estimates	Total Volume of water available increases, Higher peaks of Rws, more pronounced dry and wet seasons. The increase in the Rws values is more dramatic in the downstream areas, during Feb-March and October-November

#### Difference in Perception of shortage

"there is a shortage of water with the development of tourism in the area, as they utilize a lot of water" "planting trees and building tanks to store water" could be a way -Upstream farmer

Traditional systems of water allocation Difference in methods of management in both the reaches Role of water agencies and the Government

"The government gave us access to a spring, located about 6Km away from the village, water from which was diverted into a big tank with a capacity of 170m<sup>3</sup>. The tank serves as the water source for the village. This came at a price of 51600 CNY. Additionally we pay fees for management of the system". -Village leader (Feimo)

## Consolidated throatsand of the entering 2016 measures

Maintenance and Sustainable development	maintaining the cultural heritage, integrated development	Policy and Institutional interventions
Policy and management	Ambiguities in water policy, role of Government and water agencies, overlapping responsibilities, lack of an integrated management strategy	
Social	<ul> <li>Perceptions regarding water, Population and migration, traditional knowledge systems related to water</li> </ul>	Structural interventions
System	Climate and environmental factors	

Sustainability

