

Adaptation Technologies and Adaptation Capacities

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Content



- Adaptation, Adaptation Technologies and Adaptation Capacity
- Effects of Climate Change on Agriculture/ Livelihood
- Managing / moderating environment for Adaptation
- Managing Crops / Livestock for Adaptation
- Farmers' Field School for Adaptation Capacity

Adaptation, Adaptation Technologies and Capacity



- Adaptation is multidimensional process and phenomenon. It could be single or multiple issues focused / based
- Adaptation Technologies could be hardware and software tools, methodologies and approaches
- Adaptation capacity is made up of range of livelihood assets and strategies including the formal policies. Technology is a part of Capacity
- Adaptation Technology and Adaptation Capacity in this presentation will focus on agriculture

Impacts of Climate Change on Agriculture (Livelihood)



Agriculture is impacted by CC in 3 ways

1. CC affects directly on the physiology of crops and livestock
2. CC affects favourable environment of crops and livestock – (production factors)
3. CC affects unfavourable environment of crops and livestock – (pests and diseases environment)

Change in Seasonal Calendar of Weather

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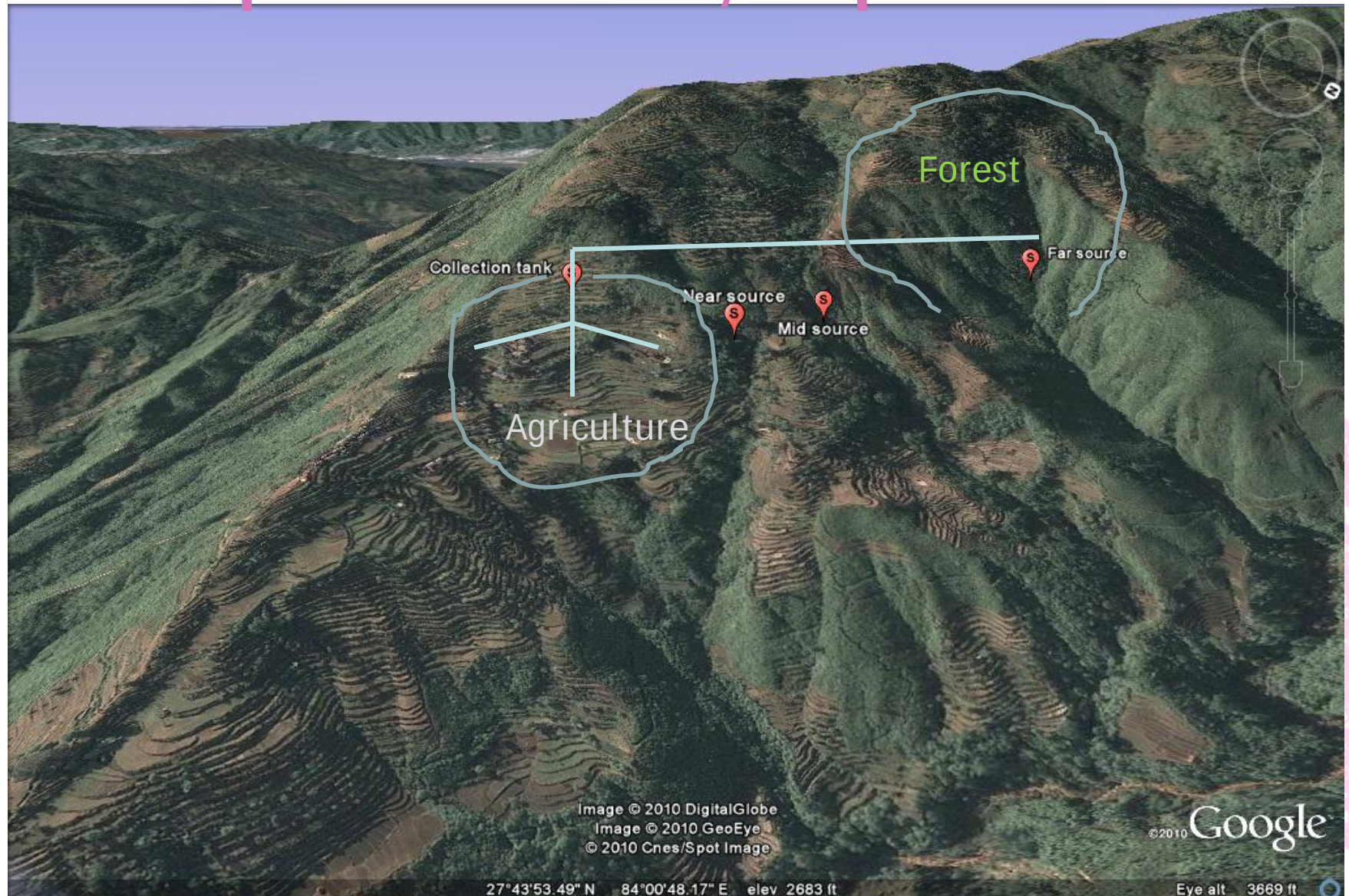
Adaptation Technologies



Adaptation technologies will address the needs to respond to the impacts of climate change on agriculture by

- Moderating environment (climate change and its effects) to crops and livestock
- Moderating crops and livestock to the environment (changed climate and its effects) and
- Both – side-by-side

A case of Bhandare village, Nawalparasi district, Nepal



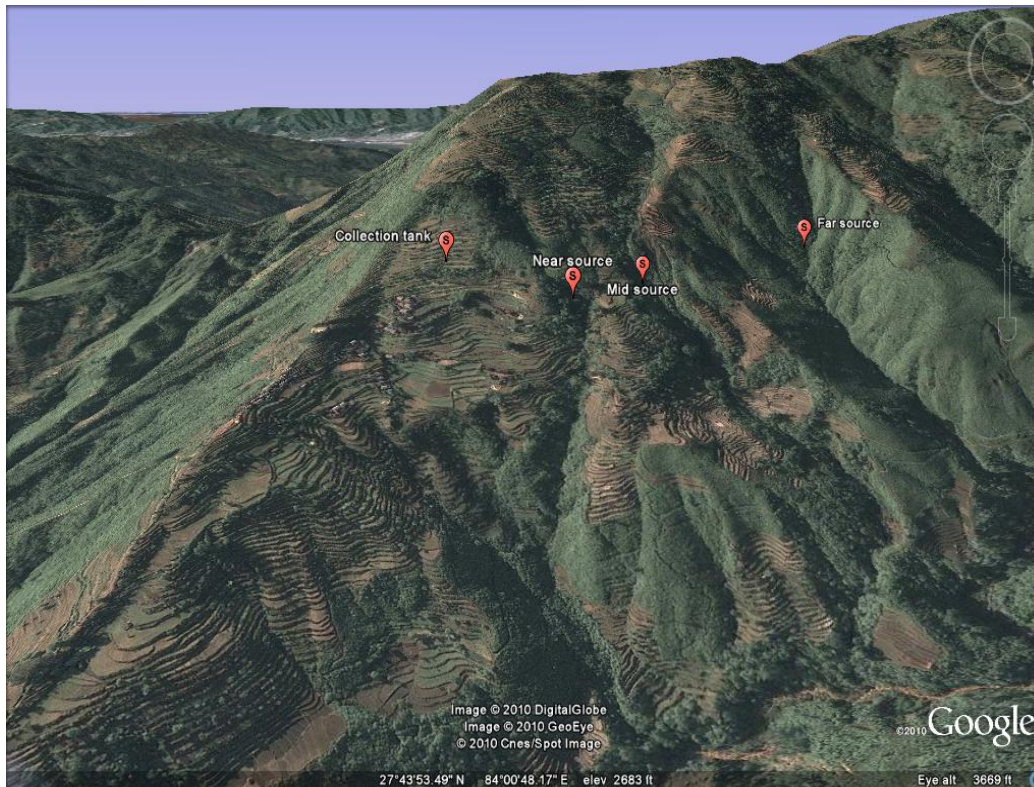
Moderating environment



- Watershed management and soil water conservation
- Efficient and multiple use of water resources through micro-irrigation



Watershed management and soil water conservation

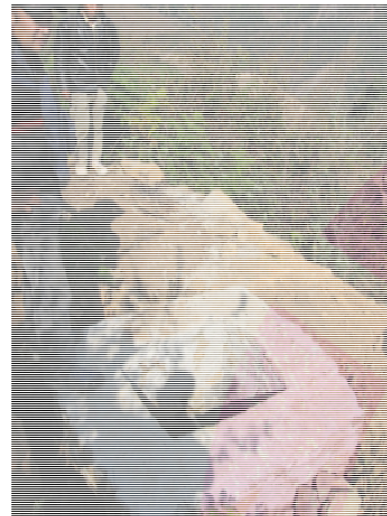


- Encouraging natural regeneration of forest and conserving it
- Plantation of fuel, fodder and fruit trees in deforested areas

Efficient and multiple use of water



- Reservoir
- Distribution points



- Water use in plots

Moderating crops



- New species / varieties of crops for the area



- New practices/ new methods of farming

Adaptation capacity

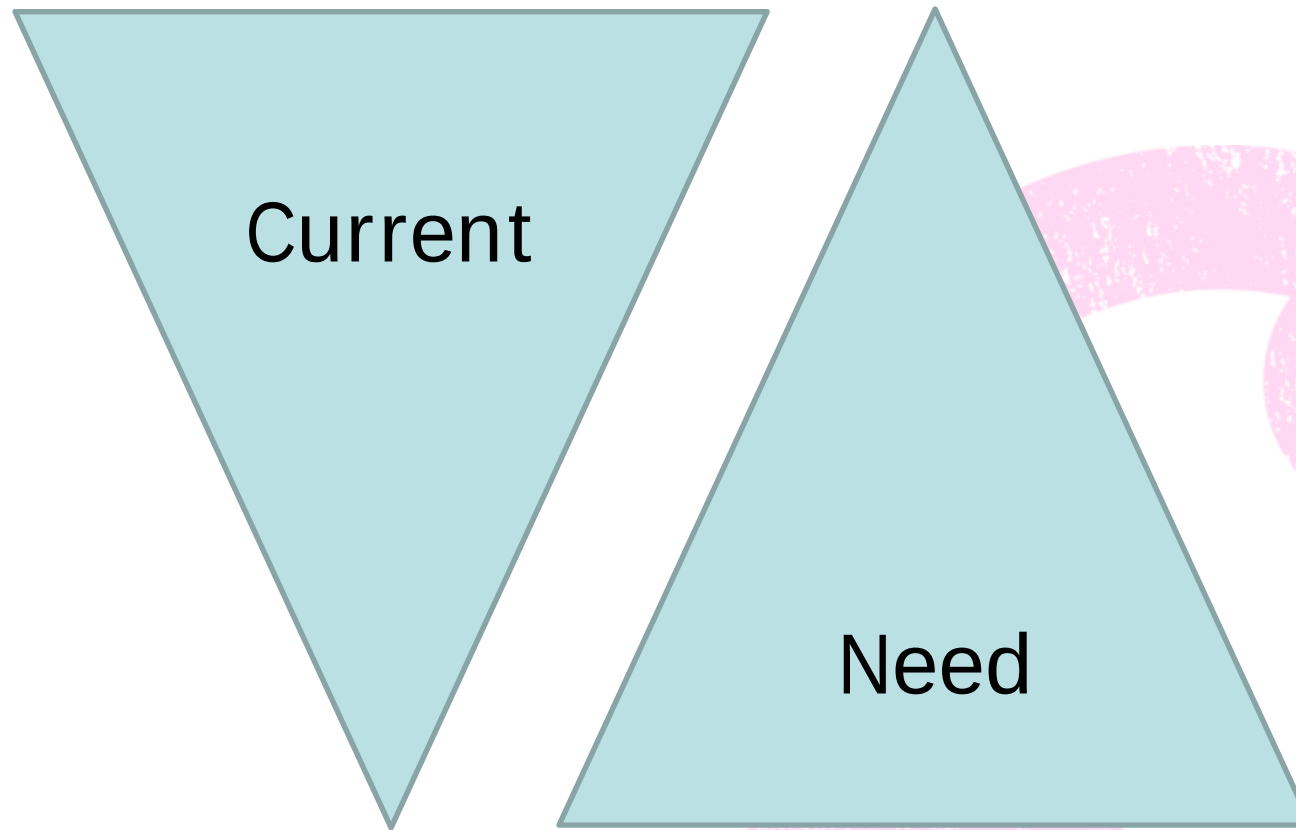
- Farmers Field School Approach for Capacity Building



Way Forward



More Actions in the Community



Thank You

