

# Mitigation and Adaptation Synergy in Agriculture and Forest Sector

- Mitigation strategies/options could increase or decrease vulnerability of
  - Agricultural and Forest Sector Production
  - Mitigation Potential itself
- Adaptation strategies/options could promote mitigation in Agricultural and Forest Sector
- Strategies that simultaneously i)increase adaptive capacity, ii)reduce vulnerability and iii)mitigation climate change (IPCC, 2007) are available in Forest/Agricultural Sector
  - Are likely to be more acceptable to policy makers and farmers/fisherman/forest dwellers
- Need to explore and promote synergy between Mitigation and Adaptation (IPCC,2007) in Agric / Forest sectors

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# Opportunities for Promoting Synergy between Mitigation and Adaptation (IPCC, 2007)

## AGRICULTURE SECTOR

- Increasing soil organic matter (carbon) can improve soil fertility & moisture holding capacity, reduce impact of drought & improve adaptive capacity and reduce vulnerability
  - also sequester carbon as a MITIGATION option
- Agro-forestry (trees + crops) and shelter-belts can improve soil fertility, reduce desertification, diversify farm production and reduce vulnerability
  - also sequester carbon and promote MITIGATION

## FOREST SECTOR

- Mixed-species forestry (compared to mono-culture) reduce vulnerability as well as sequester carbon
- Mangrove plantations - sequester carbon and reduce vulnerability of coastal settlements