

Farmer Participation in a Climate Smart Future

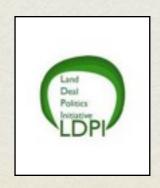
Jean Lee

Colorado College

ESP Conference 2016

Acknowledgements

- Farmers of Bumula, Malakisi, Sirisia, Wangai, Kombewa, and Madinay
- Vi-Agroforestry staff in Kisumu, Kitale, and Nairobi
- World Agroforestry Centre staff
- Colorado College Environmental Program











Roadmap

Farmers & Carbon Markets

Case Study in Kenya

Looking to the Future

Climate Change and Smallholder Farmers





Climate change mitigation measures need to include smallholder farmers—but cannot compromise livelihoods



Smallholder farmers manage 70% of cropland



Deforestation: 17% of GHG

Pro-Poor Carbon Market

Buyers

Performance-based standards and certifications

Carbon market projects may be a feasible solution to mitigate climate change and achieve sustainable development

Farmers

Carbon sequestration activities







Roadmap

Farmers & Carbon Markets

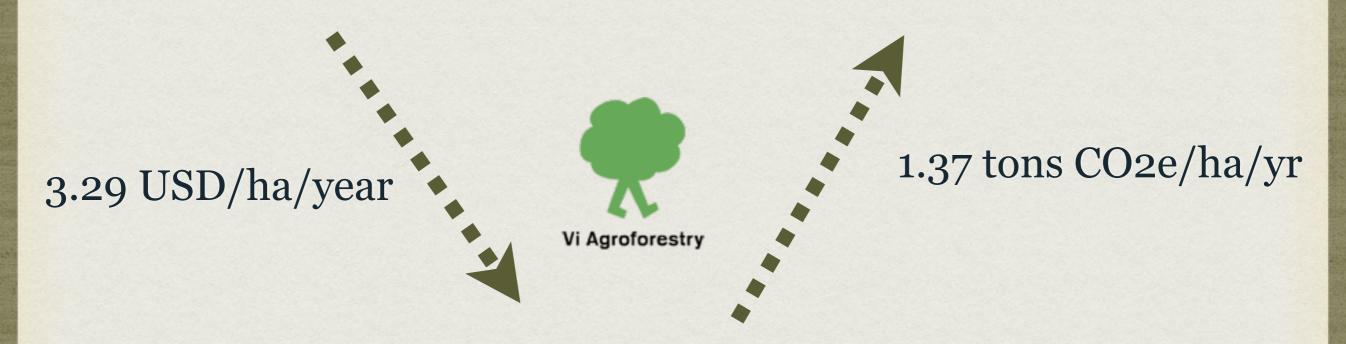
Case Study in Kenya

Looking to the Future

Kenya Agricultural Carbon Project (KACP)

World Bank BioCarbon Fund

Verified Carbon Standard: Soil Carbon Methodology



Smallholder Farmers

45,000 ha of land, 65,800 farmers carbon

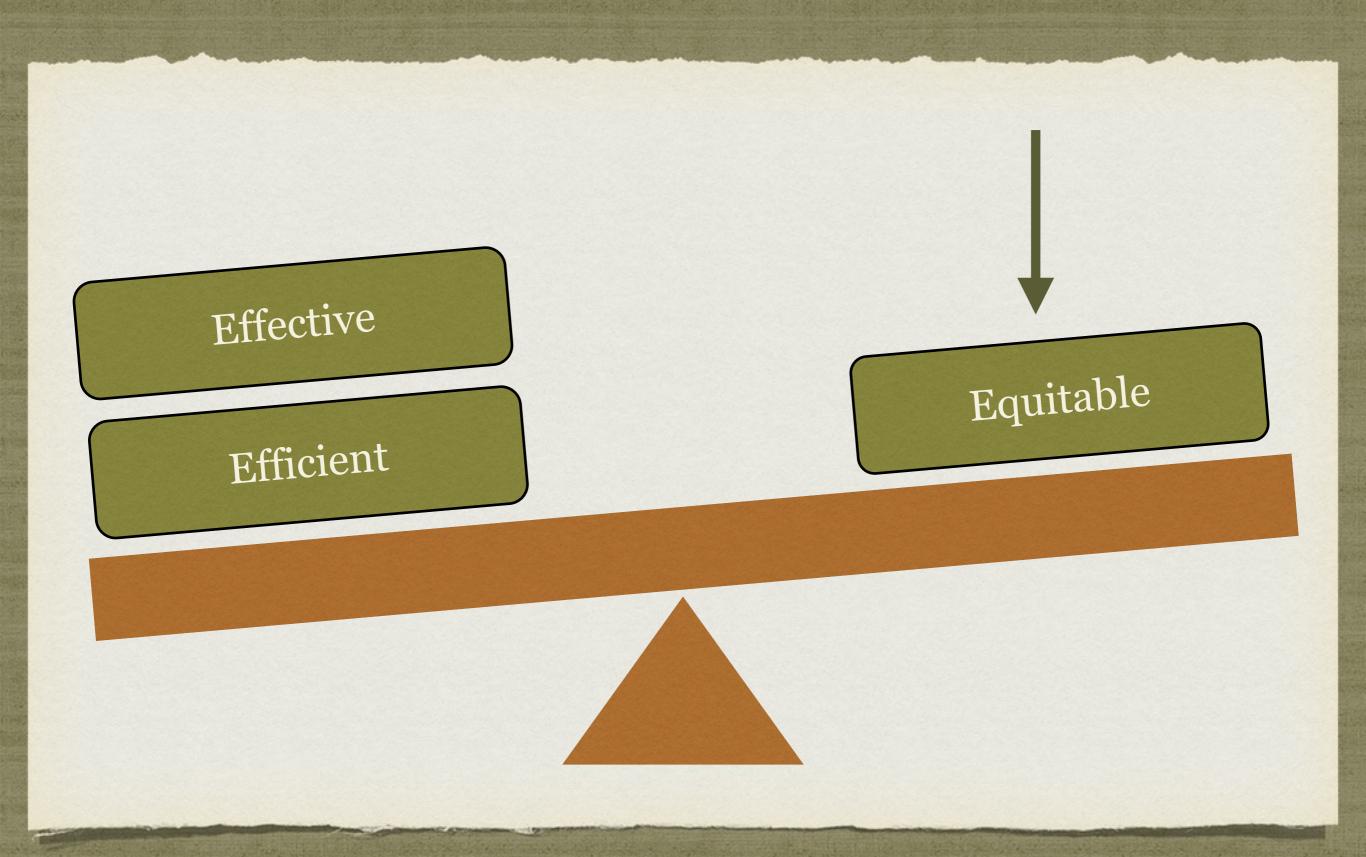






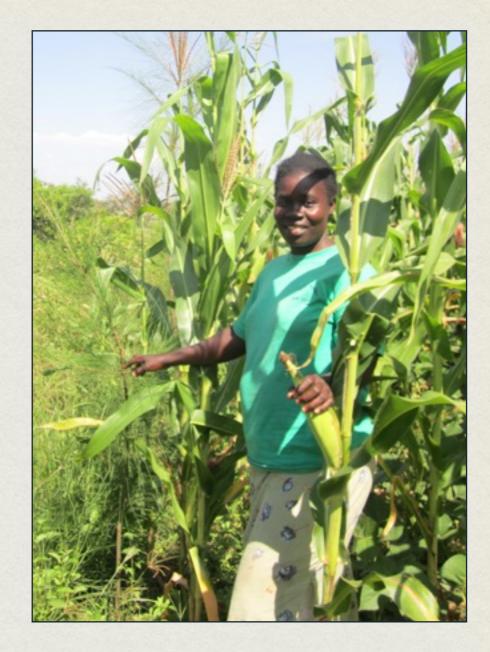


Pro-Poor Project Challenges



Equity in Access: Participation

- Eligibility
- Willingness
- Ability



Brown and Corbera, 2003; Pagiola, 2005

Eligibility to Participate

- Biophysical conditions
 - Decreased soil fertility, low crop production
- Political interests
 - Support and funding from SIDA,
 World Bank BioCF, Vi Agroforestry



Willingness to Participate

Negative influencing factors

- Perception of risk (60%)
- Evaluative frame of reference

Positive influencing factors

- Livelihood improvement: VSLAs (80%)
- Trust in project developer (45%)





Ability to Participate

- Land tenure and size were not barriers
- Adopted at least one practice (88%)
- Time and labor are barriers to terracing and composting (66%)
- Village Savings and Loans
 Associations increased farmers'
 financial and social capital (80%)



Equity in Access: Participation

Eligibility

- Cooperation and partnership between buyer, project developer, and farmers
- Outside sources of funding

Willingness

- Additional benefits outside the scope of the carbon market project
- Trust in project developer

Ability

 Diverse carbon accounting options and supplemental programs

Roadmap

Farmers & Carbon Markets

Case Study in Kenya

Looking to the Future

Farmer Participation for a Climate-smart Future

- Multi-level collaboration
- Identifying farmer perceptions



