



# Introduction to the CSA: capturing synergies between food security, adaptation and mitigation project

Leslie Lipper

Agricultural Development Economics Division, FAO  
EPIC Programme Director

Livingstonia Beach - Salima, Malawi

July 10-11, 2012





# Background and rationale for the Project

- Improving agriculture: key solution to food insecurity and climate change problems
  - Ag growth is most effective means of poverty reduction
  - Projected CC impacts require adaptation measures in agriculture
  - Often mitigation co-benefits are generated through measures to increase food security and adaptation and these can bring an additional source of finance
- CSA is building agricultural development policies, strategies and investments to increase food security with needed adaptation, capturing financial benefits from potential mitigation co-benefits



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ECONOMICS & POLICY INNOVATIONS FOR  
CLIMATE-SMART AGRICULTURE



CSA is...

- Context specific
- Evidence based
- Assessing synergies/tradeoffs across multiple objectives

CSA is not..

- One practice that is always applicable
- Prioritizing mitigation in LDC context



# Background on the project

- 2009 Program of work on FS and CC for Copenhagen
  - Indicating considerable potential to capture synergies and link CC finance to agriculture
- 2010 Development of CSA background paper for Hague
  - Highlighting importance of resilience and institutional framework
- 2010 Initiate discussion with EC and countries for CSA project
  - Driven by need for action at country level
- 2011 Project development; background technical studies
  - Project plan is a framework to be filled in by each country
- 2012 Project initiated!
  - Time to fill in the framework

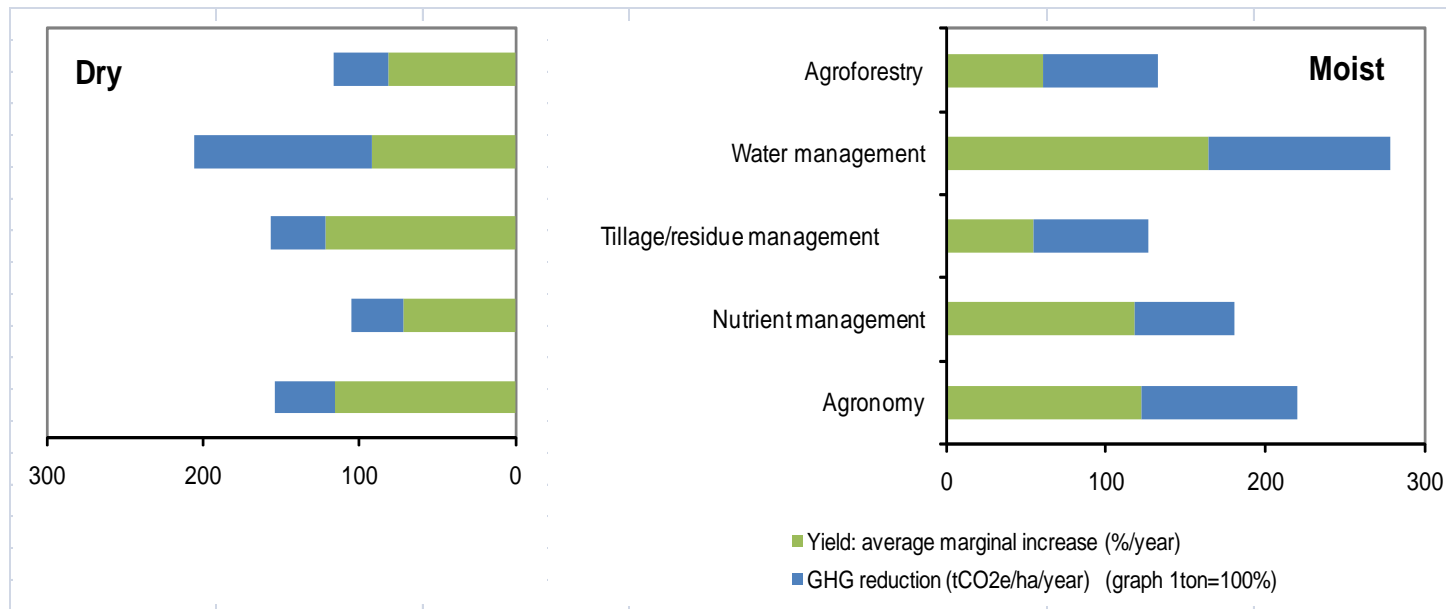
# Example of synergies/tradeoffs analysis outcome for specific location

## Food Security + Adaptation Potential

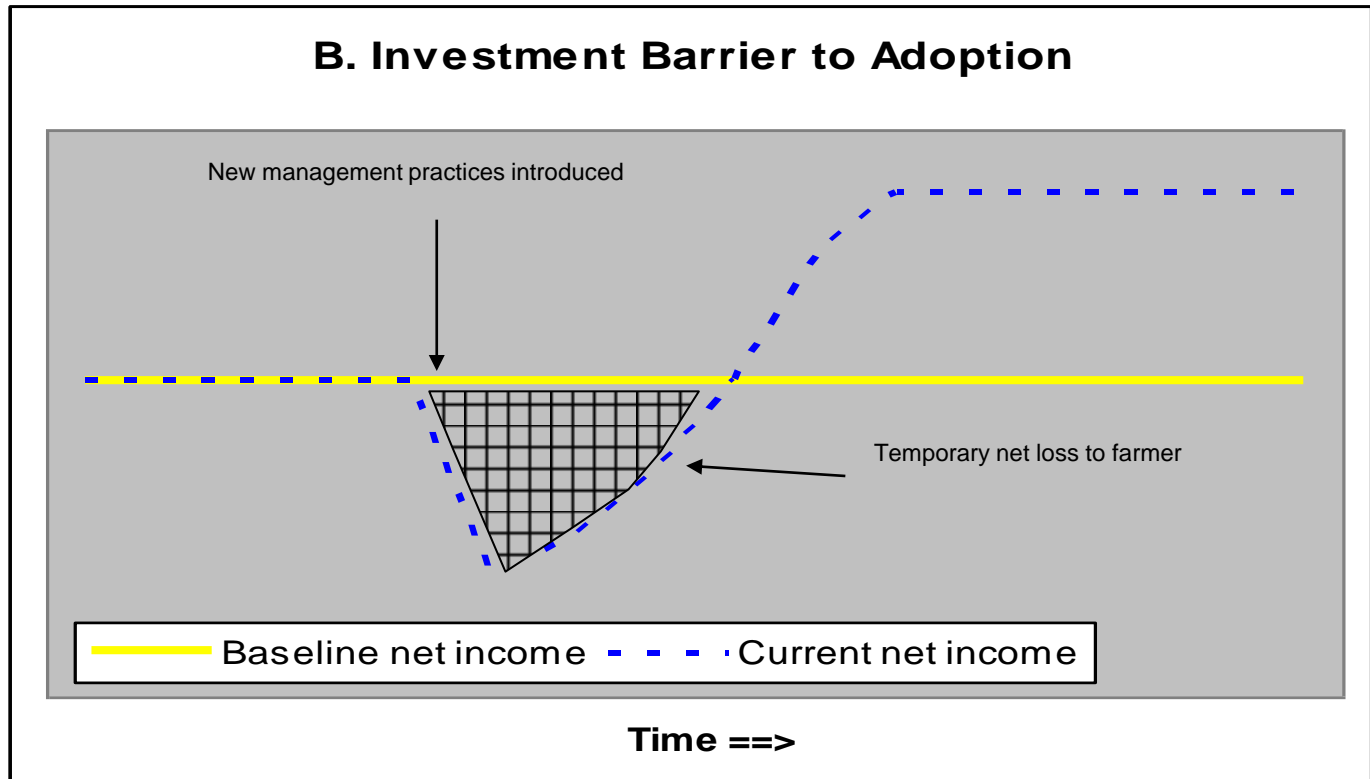
<p><b>Food Security Potential :</b> High  <b>Mitigation Potential:</b> Low</p> <p>Expand cropping on marginal lands  Expand high energy-intensive irrigation  Expand energy-intensive mechanized systems  Inefficient use of nitrogen fertilizer</p>	<p><b>Food Security Potential :</b> High  <b>Mitigation Potential:</b> High</p> <p>Restore degraded land  Expand low energy-intensive irrigation  Conservation agriculture with agro-forestry  Low emissions dairy diversification</p>
<p><b>Food Security Potential :</b> Low  <b>Mitigation potential:</b> Low</p> <p>Bare fallow  Continuous cropping without fertilization  Over-grazing</p>	<p><b>Food Security Potential :</b> Low  <b>Mitigation Potential:</b> High</p> <p>Reforestation/afforestation  Restore/maintain organic soils  Agro-forestry options that yield limited food or income benefits</p>

**Sequestration/Mitigation Potential**

# Comparing effects on average yields and carbon sequestration from adopting SLM



# Adoption Barriers: Up-Front Financing Costs



Source: FAO 2007



## Why Malawi?

Early action CSA implementation in countries requires country commitment and capacity: Malawi has both

1. Interest, commitment and capacity in MOAFS;
2. Strong voice in international climate talks on agriculture;
3. Good basis for policy coherence (AsWAP, NAPA, CCP);
4. Strong research capacity in related fields
5. Several CSA related activities already being implemented



# Project Framework

## NEEDS

### Core Need

Develop a policy environment & an agricultural investment strategy to attain increased food security and provide resilience under climate uncertainty

### Potential entry points:

- Input support
- Conservation agriculture
- Livestock/crop mix
- Agriculture/Forest interface
- Role of climate risk and uncertainty
- Role of legal and institutional environments

## RESEARCH COMPONENT

<sup>1</sup> What are the synergies and tradeoffs between food security, adaptation and mitigation from specific practices/locations?

<sup>2</sup> What are the barriers to adoption of CSA practices in specific agro-ecological/socio-economic contexts?

<sup>3</sup> What are the policy levers/institutions required to facilitate adoption and what will they cost?

<sup>4</sup> What changes are needed in the legal/regulatory/ policy environment to support CSA implementation?

## POLICY SUPPORT COMPONENT

<sup>1</sup> Identifying where policy coordination at the national level is needed and means to do it

<sup>2</sup> Facilitating national participation/inputs to international climate and ag policy process

<sup>3</sup> Capacity building for more evidence-based and integrated policy-making

## OUTCOMES

- Climate smart agricultural solutions for different contexts
- Appropriate instruments for prioritization, financing, and adoption
- Development of an investment proposal.
- Capacity to implement a CSA strategy

### Outputs

An evidence base for implementation for climate smart agriculture.

A strategic framework to guide action and investment on CSA.

Climate smart agriculture investment proposals and identifying financing sources, including climate finance.

Capacity building for planning, policy, implementation, financing



## What has been done up to now?

- Identified CSA Priority Areas for Malawi in collaboration with Government and research partners and initiating work on evidence base (Conservation Ag., Diversification, Dairy, Irrigation)
- Identified National Focal Point for the Project (LRCD under MoAFS)
- Set up a selection process with Bunda College to identify students whose interests match the priority areas
- Hired Technical Coordinator
- Started analyzing agricultural household data (LSMS 10,000 HH 2010, 2004) and matching weather data to do analysis of adaptation/food security
- Initiated support to government experts attending UNFCCC



## What do we need to do at this workshop:

- Get input from all relevant stakeholders to develop detailed and country specific project plan
- Revise and “fill in” the existing project log-frame
  1. Building the evidence base
  2. Country-owned strategic framework
  3. Develop CSA investment proposals
  4. CSA planning and implementation capacity



Thank you!