

Climate Smart Agriculture and the Centrality of Climate Resilience

Sam Barrett
15th February 2016



International Institute
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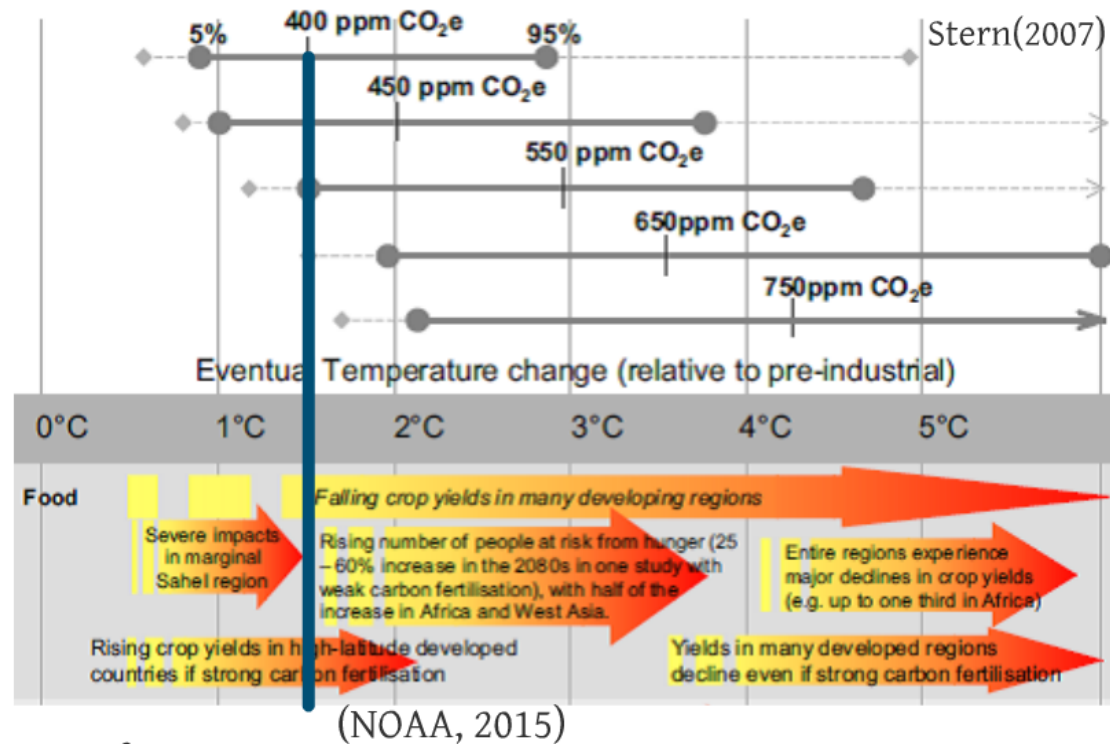
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Content

- 1) Climate Smart Agriculture (CSA) - Basics
- 2) Centrality of Climate Resilience
- 3) Conceptual Problems of CSA/Resilience

Immediate Problem to Address

- * Population Rise
- + Erratic Rainfall
- + Drought
- + Floods
- + Land Degradation



Tol (1995) -8.7% Sub-Saharan Africa GDP;
 Tol (2002) -4.1% Sub-Saharan Africa GDP;
 Maddison (2003) -14.6% South America GDP;
 Rendaz et al (2006) -23% Sub-Saharan Africa GDP

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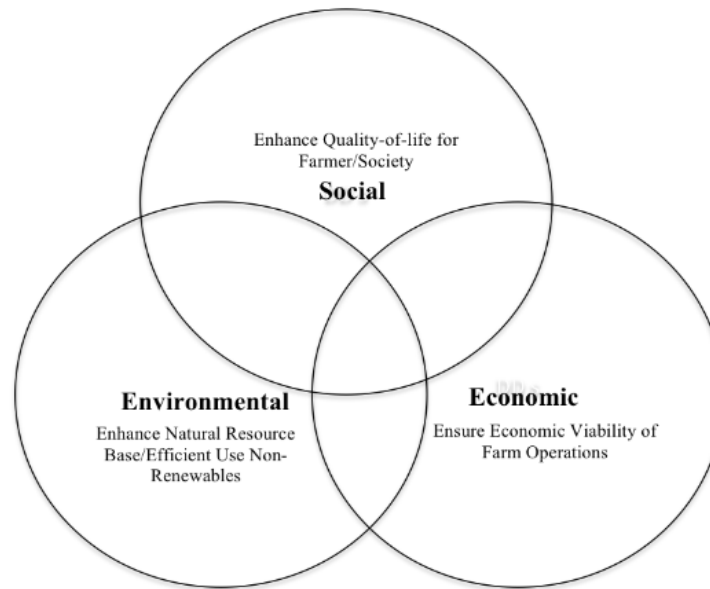
CSA: Food Security and Climate Challenges

- Sustainable Increase in Agricultural Productivity/Income;

+ Resource Efficiency

+ Higher Production

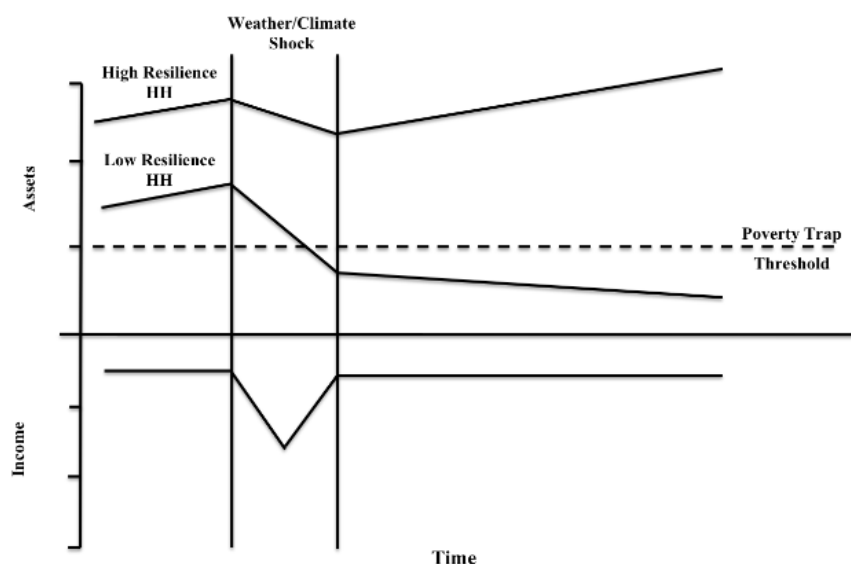
+ Sustainable



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CSA: Food Security and Climate Challenges

- Adapting and Building Resilience to Climate Change

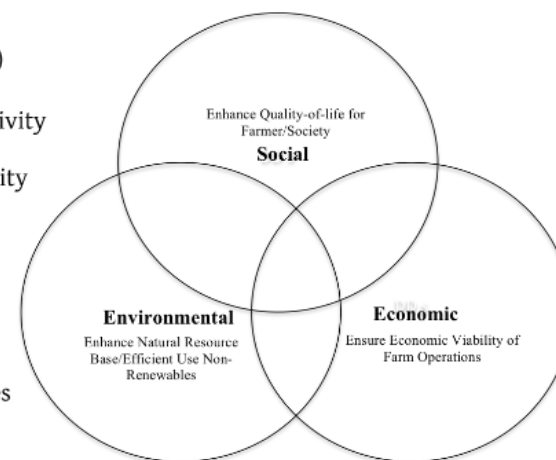


Benefits

- Reduce Uncertainty (CIS)
- Reduce Exposure/Sensitivity
- Increase Adaptive Capacity

Effects

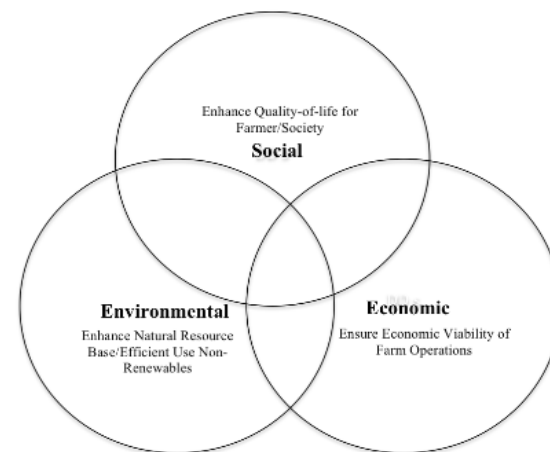
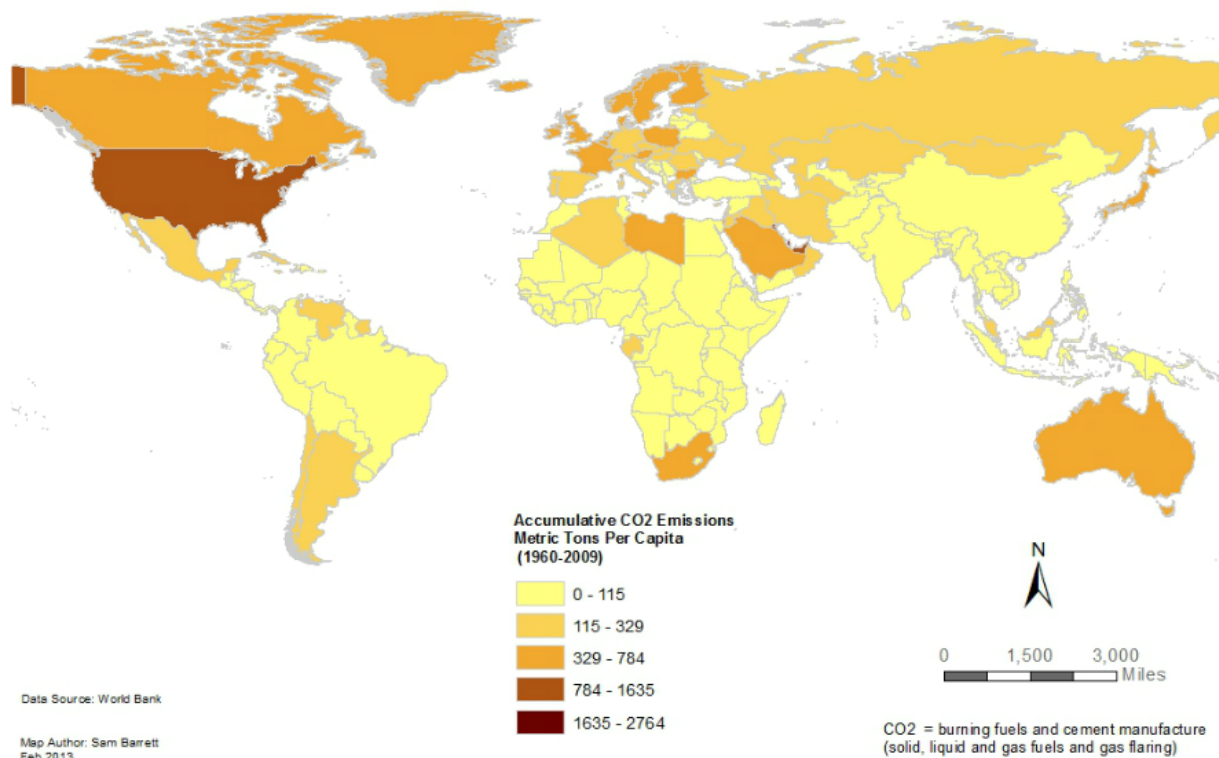
- Higher Productivity
- Reduced Ag./Live. Losses
- Improved Food Access
- Higher Incomes
- Higher Asset Levels
- Strengthens N.R Base



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CSA: Food Security and Climate Challenges

- Reducing Emissions



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CSA - What's New?

- Green Economy and Sustainable Development;
 - + Greater Efficiency
- Sustainable Intensification
 - + More Production Without Eroding N.R Base

CSA/Resilience: Conceptual Problems

- Climate Thresholds of Impracticality
- Balancing All Dimensions - i.e. intensification v sustainability
- Applicability of Emission Reductions to Least Developed Countries