Agroecology Practice in Northern Ghana

Regional Advisory Information and Network Systems (RAINS)

Introduction

- The Current Challenges to Agriculture Posed by food insecurity and climate change are serious
- A paradox of increased food production and growing hunger globally
- Conventional Agriculture has contributed immensely to CC crises
- Poor countries especially Smallholders will be affected
- IAASTD "...business as usual no longer and option".... the future of Agriculture is in biodiversity and agroecology

A growing crisis farming

Root causes and drivers of the crisis

- declining soil fertility (reduced fallow, population Increase)
- •climate change (late, irregular rains)

Exacerbating factors:

- Gender inequality, poor nutrition practices,
- inadequate community capacity for rapid adaptation
- •Inappropriate government policies for agriculture

Working with family farmers to adapt to climate change?

Alarming projections of a temperature rise of 3°C to 5°C above today's already high temperatures by 2050.

 By 2050, scientists predict a decrease in agricultural production for most cereals and staples –

Communities already recording only half of the previous years' production. Increasing the risk of food insecurity.



Field preparation







Unwanted trees are removed

Productive Trees are managed

Transformation achieved by a farmer applying FMNR

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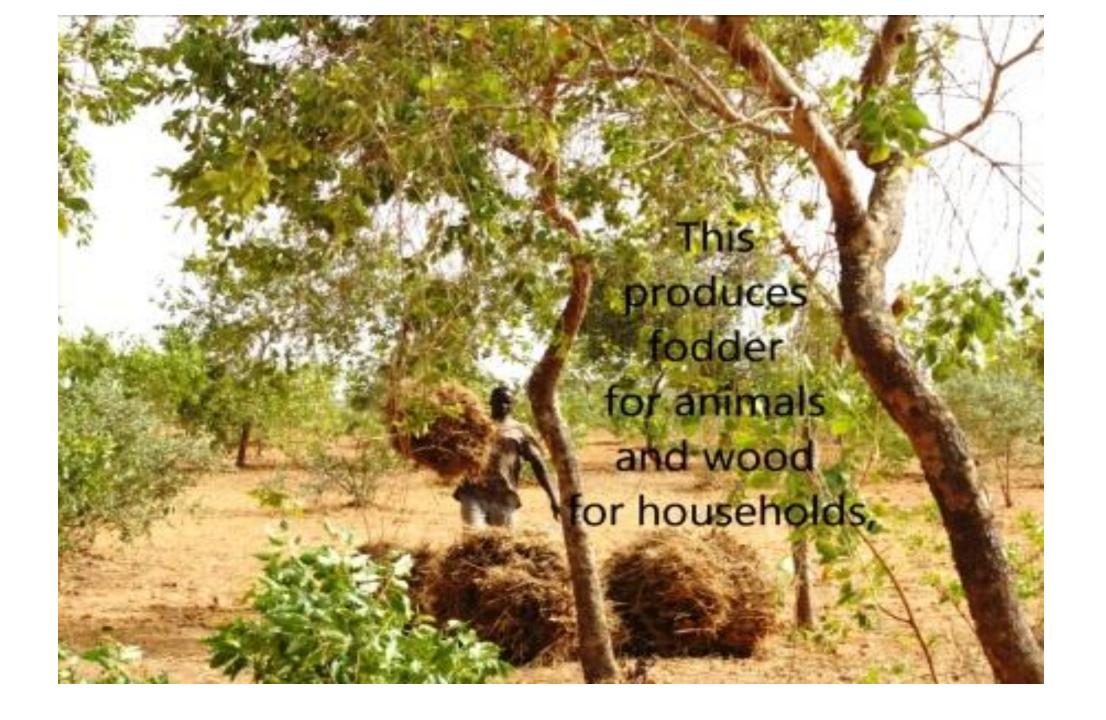




FMNR



Growing trees and feed at the same time on the same plot



Community Seed and Knowledge



 Promoting local seed production and utilization

Community Seed and Knowledge

Community participation at the heart of processes –

Community Dialogues

Historical Timelines & Maps

Seasonal Maps





AE is about integrated soil management. Maize intercropped with cowpea fixes nitrogen



Yields can be increase through Agroecology without chemical fertilizers



Community Seed Knowledge

- The initiative succeeded in raising community members' awareness of climate change and its impact on rural livelihoods.
- Revived revived a number of indigenous seed varieties that were on the verge of extinction (bambara beans, cowpea, sanze, bungu, agusi, neri, late millet and sesame) – thereby improving access and diversifying their diets.
- Local communities hold the key to tried and tested indigenous Knowledge
 Systems and as such are vital actors in Climate Change adaptation initiatives.

Rock bunds along the contour







Bonding

Ridging



Compost Application Leaves from pruned trees are left on the field to rot. Tree reduces heat intensity and improves moisture



Upscaling of Agroecology

• Upscaling research into AE – Testing Viability of Approaches and Cases Studies

• For Africa, Increase documentation of successful and AE approaches

Change in existing policy environment needed.



YOU

THANK

