

# FOOD SECURITY IN A CHANGING CLIMATE

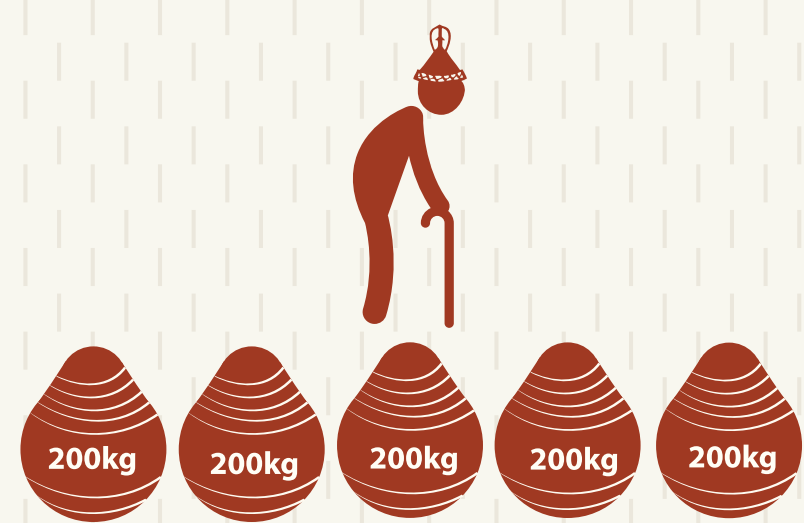
## Adapting our farming system to a changing climate in Lesotho

Sustainable agriculture implies producing our own food today without compromising our children's ability to produce even much more in the future.

If we do not protect our natural resources, one day soon we may not be able to sustain our livelihoods and our children's future.

If this happens, our children will never forgive us.

### Sustainable Farming



In the past: granary 1 ton.



Current Farmer: bags of maize.

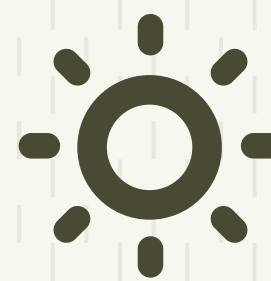


Current Farmers' Children: ?

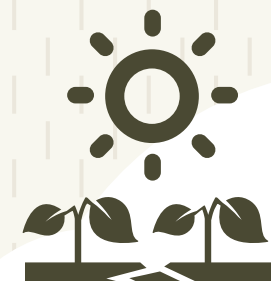
Are we farming sustainably?

### Climate Change Consequences

Weather has become more unpredictable, less regular



Extreme temperatures.



Intense drought.



Frequent flooding.



Delay of first rains.



Greater impact of frost.

### How do we adapt to Climate Change?



Conservation Agriculture (e.g. Likoti).



Homestead vegetable cultivation (e.g. Key-hole gardening).



Match planting times with the choice of your crops, to coincide with first rains.

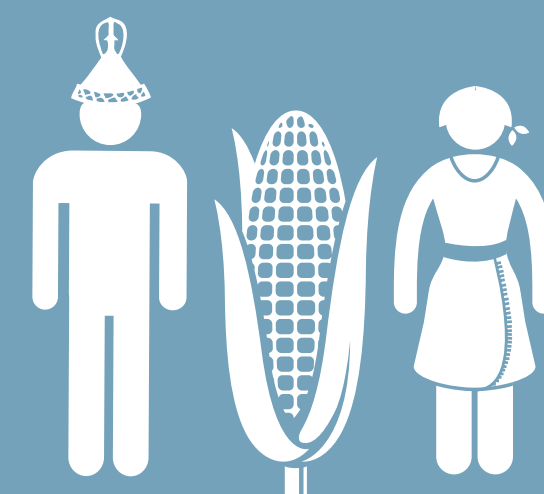


Install water-harvesting tanks and drip irrigation systems.



Crop diversification.

### Climate Change Adaptation: Why is it urgent?



Adapt to unpredictable and erratic rainfall.  
Reduce incidents of crop failures.  
Improve food security.  
Reduce poverty.

### Conservation Agriculture & Climate Change Adaptation

Conservation Agriculture (CA) is one of the best adaptation techniques in Lesotho context and it is accessible to all. The principles of CA are:

- 1) minimum soil disturbance
- 2) permanent soil cover: crop residue or live mulch
- 3) crop rotation and/or intercropping.



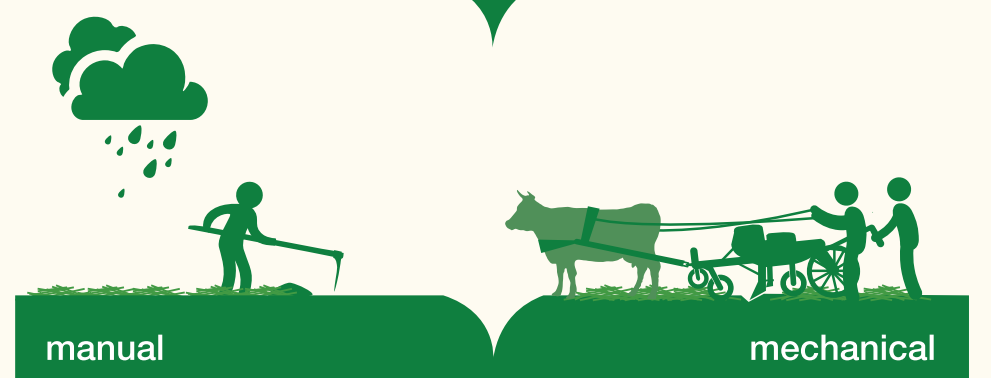
We need to change our current practices so we can produce more quantity and quality food while improving the soil in our fields.

### Conventional Tillage



Increased erosion of the fields and low yields with higher costs:

### Conservation Agriculture

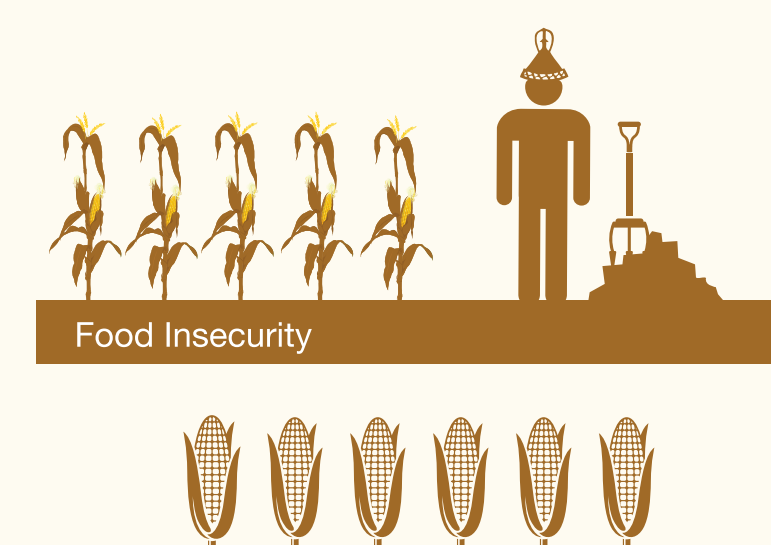


Improves the soil condition and the production gets better and better, year after year, with lower costs:

### WHY?

### WHY NOT?

### What is the future for our children?



### The time has come for adapting to climate change.

We must protect the environment that feeds us! We must protect our families!

While we have produced food crops through conventional tillage for many years, this has come at great cost to our environment and soil productivity with negative impact on our households' food security.

Conservation Agriculture offers us the best opportunity for climate change adaptation.



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