

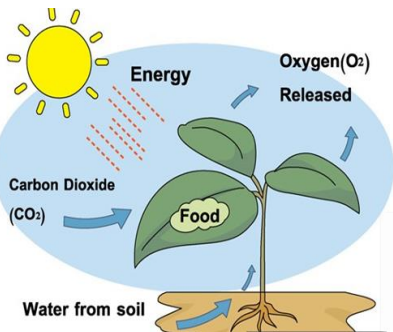
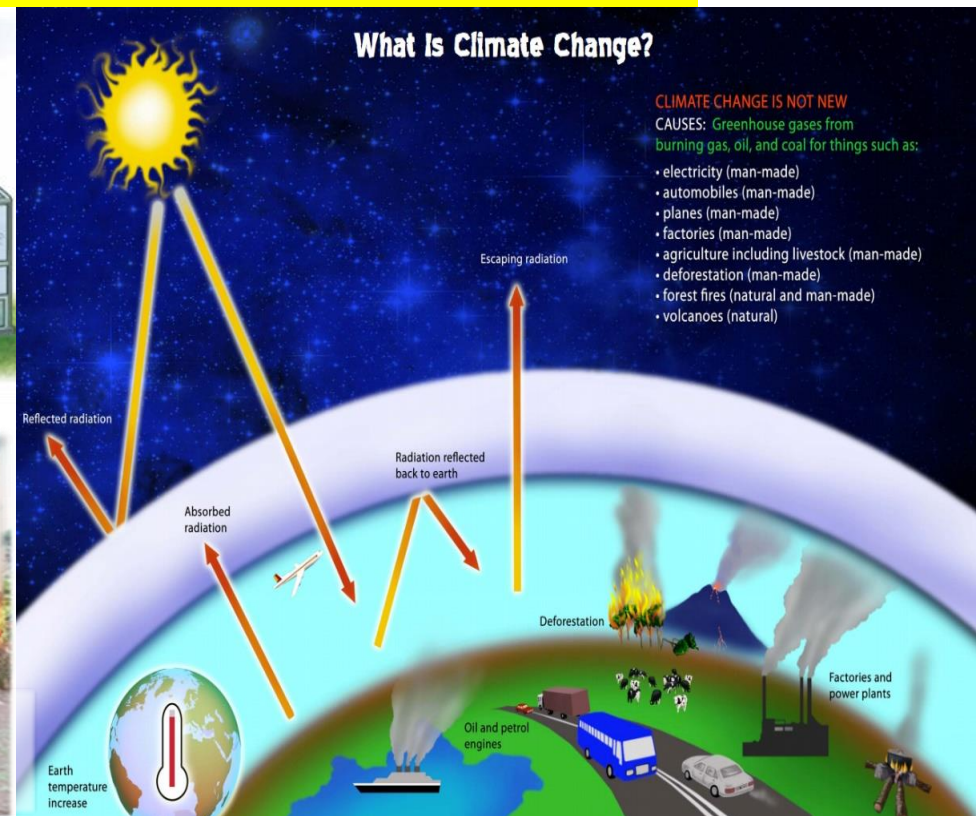
# TRAINING GUIDE FOR SMALL SCALE CARBON FARMERS

## Understanding climate change

- **What is climate change?**
- **How are farmers experiencing the effects of climate change?** (Farmers to compare historical and current trends)
- **The general effects of climate change.**
- **Farmers contribution to the causes of climate change** (Emission, tree cutting, conventional farming practices)
- **The major causes of climate change,** (Greenhouse gases Emission, global warming, greenhouse-effect).

## Carbon sequestration

How plants (Crops and trees) absorb Carbon from the atmosphere.



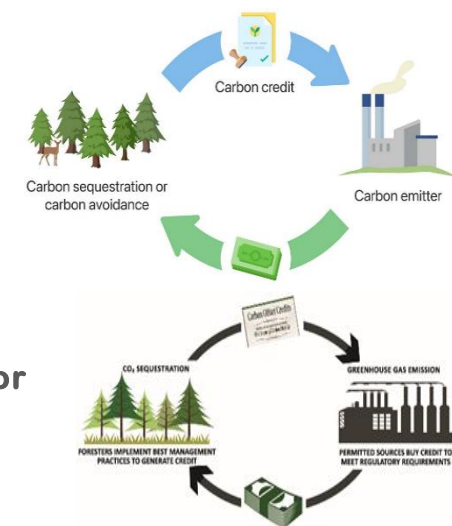
## Work of a Tree: The Carbon Cycle



## Main benefits for a soil carbon farmer:

Receive **trainings** on sustainable farming practices to;

1. Increase **soil organic matter/fertility** through sustainable farming practices.
2. Increase **crop productivity** sustainably for food and income.
3. Earn a **carbon credit bonus** as an **incentive** for contributing to **removal of carbon** from the atmosphere through **sustainable farming practices**.





# TRAINING GUIDE FOR SMALL SCALE CARBON FARMERS

Sustainable farming practices and climate-smart agriculture practices

## I. Conservation agriculture

- **Minimum tillage:** Ripping, chiseling, shallow weeding, chemical weed control
- **Crop diversity:** crop rotation, intercropping, strip cropping,
- **Soil cover:** crop residue retention, cover crop

## II. Integrated soil fertility management. (ISFM)

Soil testing, soil liming, compost manure, and the right rate of synthetic fertilizer synthetic organic fertilizers, crop rotation, crop residue

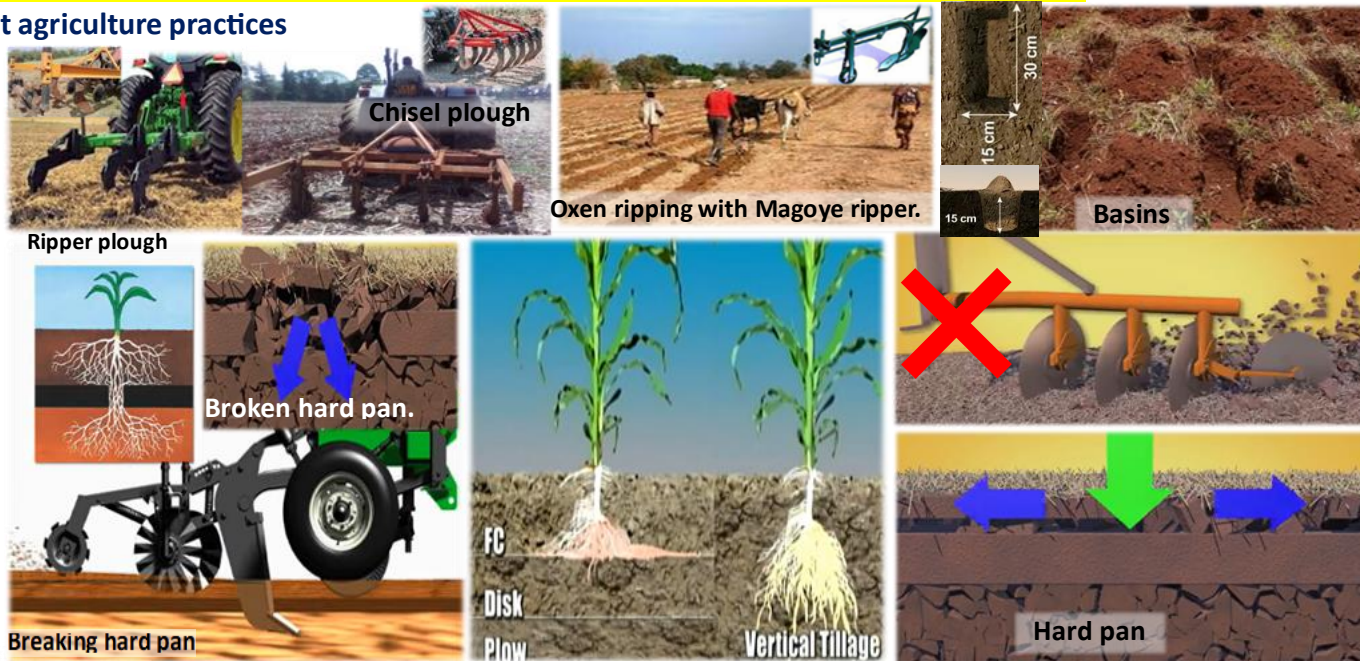
## III. Agroforestry.

## IV. Integrated pest management. (IPM).

## V. Water harvesting and solar irrigation.

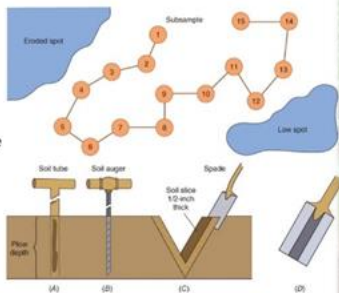
## VI. Crop-livestock integration with rotational grazing for free range system

## VII. Biogas for clean cooking energy and bio slurry fertilizer.

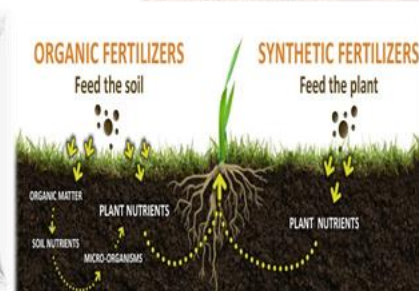


## Sampling Procedure

- Choose subsamples from random spots
- Scrape off surface litter and remove a sample of soil
- Mix subsamples from one area into a composite sample
- Fill the mailing container and complete sample sheet
- Mail samples to laboratory



Compost manure



Water harvesting + Dam liners