AGROFORESTRY

- The interaction of agriculture and trees, including the agricultural use of trees.
- Involves the planting of trees or shrubs in or around farmland or pastureland.
- Increases soil organic carbon
- Improves soil nutrient availability and fertility
- Enhances soil microbial dynamics
- Reduces soil erosion

INTEGRATED MANURE MANAGEMENT

- The optimal handling of livestock manure involving its collection, storage, treatment, and application.
- Restores soil fertility
- Reduces soil erosion
- Reduces nutrient leaching
- Enhances the resilience of soil to climate change
- Increases soil organic carbon

CONSERVATION AGRICULTURE

- Covers the topsoil with plant material such as leaves, grass, twigs, crop residues, straw etc.
- Enhances the activity of soil organisms
- Improves soil structure contributing to aeration and water infiltration
- Conserves in-soil water
- Increases soil organic carbon
- Reduces soil erosion

CROP ROTATION

- The successive alternation of subsistence, cash or green manure/cover crops on the same field following a set sequence.
- Restores soil fertility
- Reduces soil erosion
- Recycles plant nutrients in the soil
- Prevents soil crusting
- Conserves in-soil water

CROP DIVERSIFICATION

- Involves cultivating at least two varieties of crops that belong to the same or different species in a given area in a form of mixed cropping or monocropping.
- Conserves in-soil water
- Increases soil organic carbon
- Reduces soil erosion
- Improves soil nutrient availability and fertility
- Enhances soil microbial dynamics

MULCHING

- Includes covering the topsoil with plant material such as leaves, grass, twigs, crop residues, straw etc.
- Enhances the activity of soil organisms
- Improves soil structure contributing to aeration and water infiltration
- Conserves in-soil water
- Increases soil organic carbon
- Reduces soil erosion

BUILDING SOIL HEALTH IS A KEY OUTCOME OF CLIMATE-SMART AGRICULTURE

Many climate-smart agriculture practices contribute to improved soil health. Maintaining or enhancing soil health is essential for sustainable and productive agriculture.