

Regenerative climate resilience techniques



Denyse NIYUBAHWE
Gardens for Health International

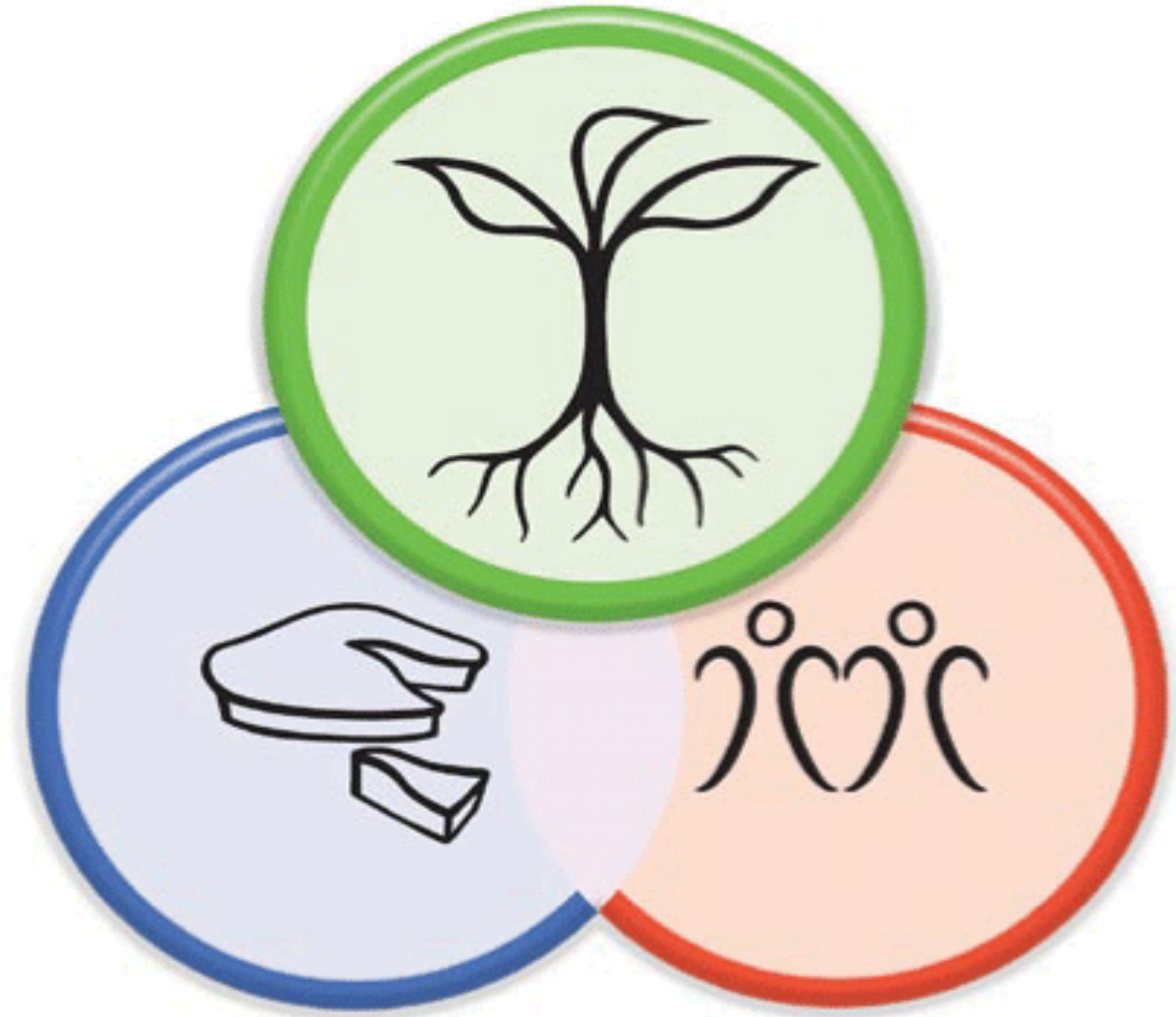
KT webinar
December 14th, 2022

Ethics

Care for the earth

Care of people

Fair Share



Regenerative farming principles

1. observe and interact

2. Catch and store energy

3. Obtain a yield

4. Apply self regulation and accept feedback

5. Use and Value renewable resources and Services

6. Produce no waste

7. Design from pattern to details

8. Integrate rather than segregate

9. use Small and slow solution

10. use and Value diversity

11. use edges and Value the marginals

12. creatively use and respond to change.

Practices

Optimization of water catchment

- ❑ Swales and berms establishment (to catch run off)
- ❑ Perennial crops planting on berms and into swales
- ❑ Irrigation system



Maximize trees and their energy transactions

- ❑ Plant agroforestry trees, medicinal plant, fruit trees by intercrop shrubs, medium and tall trees



Build healthy soil

- Composting and vermicomposting
- cover cropping
- Reduced tillage
- Bed building
- Double dug & Sunken bed
- Mandara garden
- Upstairs garden
- Zay pit
- Mulching



Integrated Pest Management

- Homemade pesticides
- Intercropping
- Beneficial insects
- in season care practices
- Promotion of indigenous crops

Post harvest handling practices

- Storage
- Seed's saving

Livestock integration

AG10 Pili - Pili Pesticides

GARDENS FOR HEALTH INTERNATIONAL

MAKING PILI-PILI PESTICIDE

Pili - Pili **Black Jack** **Marigold** **Soap Flakes (1 full spoon)** **Garlic**

- Steps

Step 1: Grind 2 Handfuls of pili-pili (add handful of marigold and aloe and 2 cloves garlic if available)

Step 2: Add 1L Boiling Water

Step 3: Let sit for 24 hours

Step 4: Strain mixture using tea filter

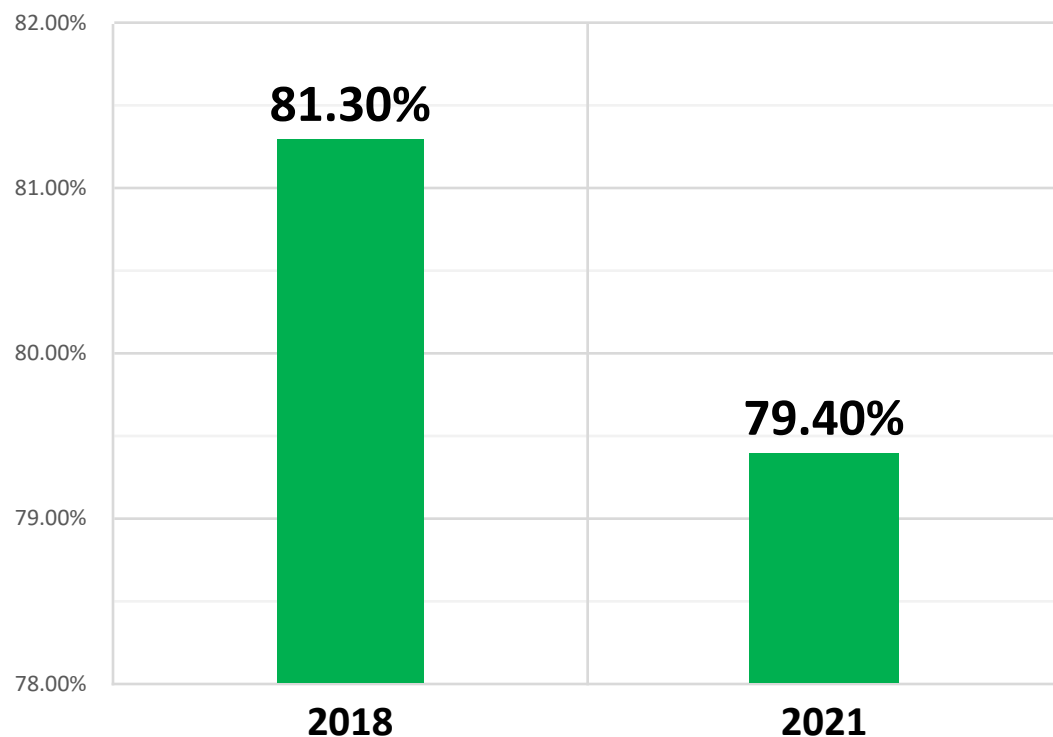
Step 5: Add 5 Liters Cold Water + 1 spoonful soap powder, no OMO or VIM, apply to plants



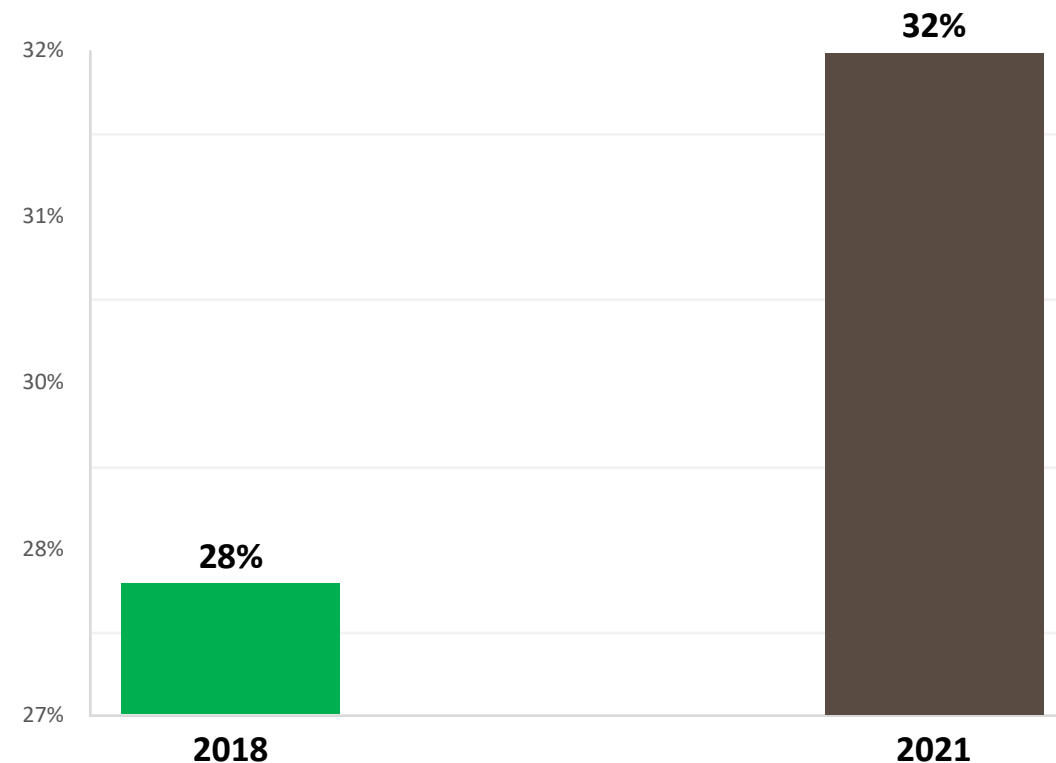
How can Regenerative Agriculture mitigate climate change effects on food security at household level

Recent status of food security, Case of Rwanda

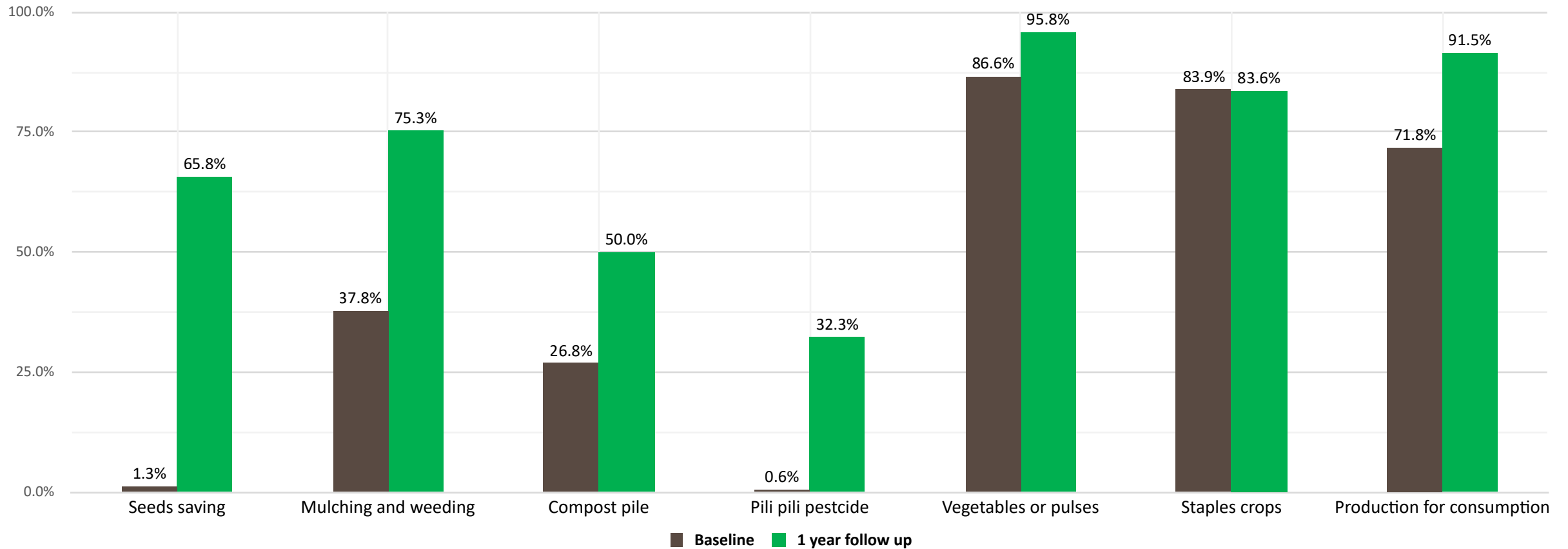
Food secure HH



Minimum Dietary Diversity

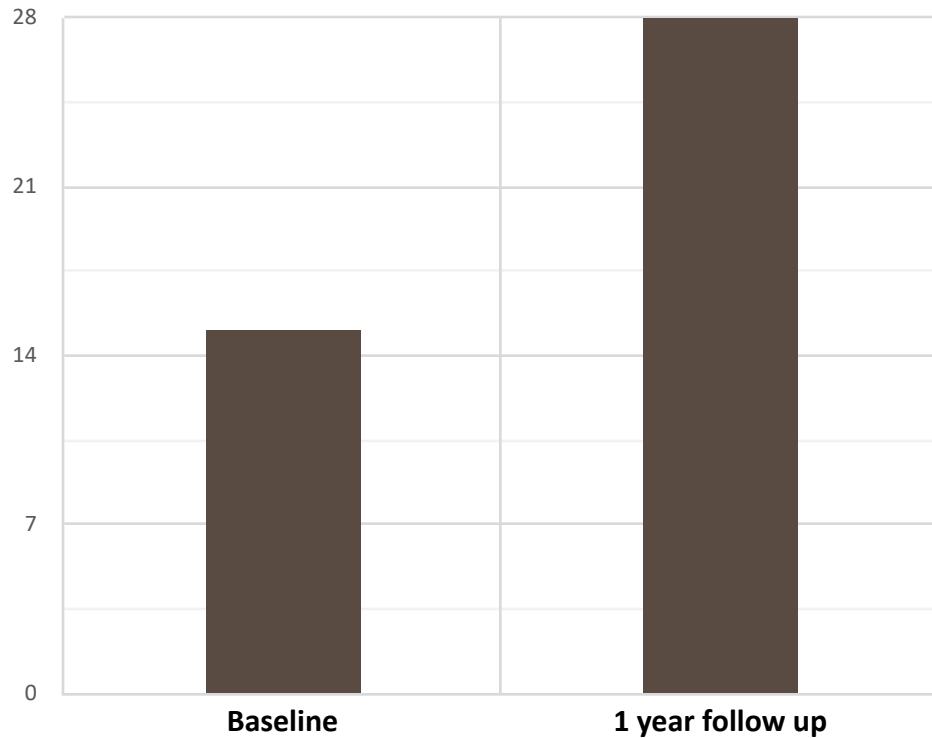


Regenerative farming techniques are well adopted at household level

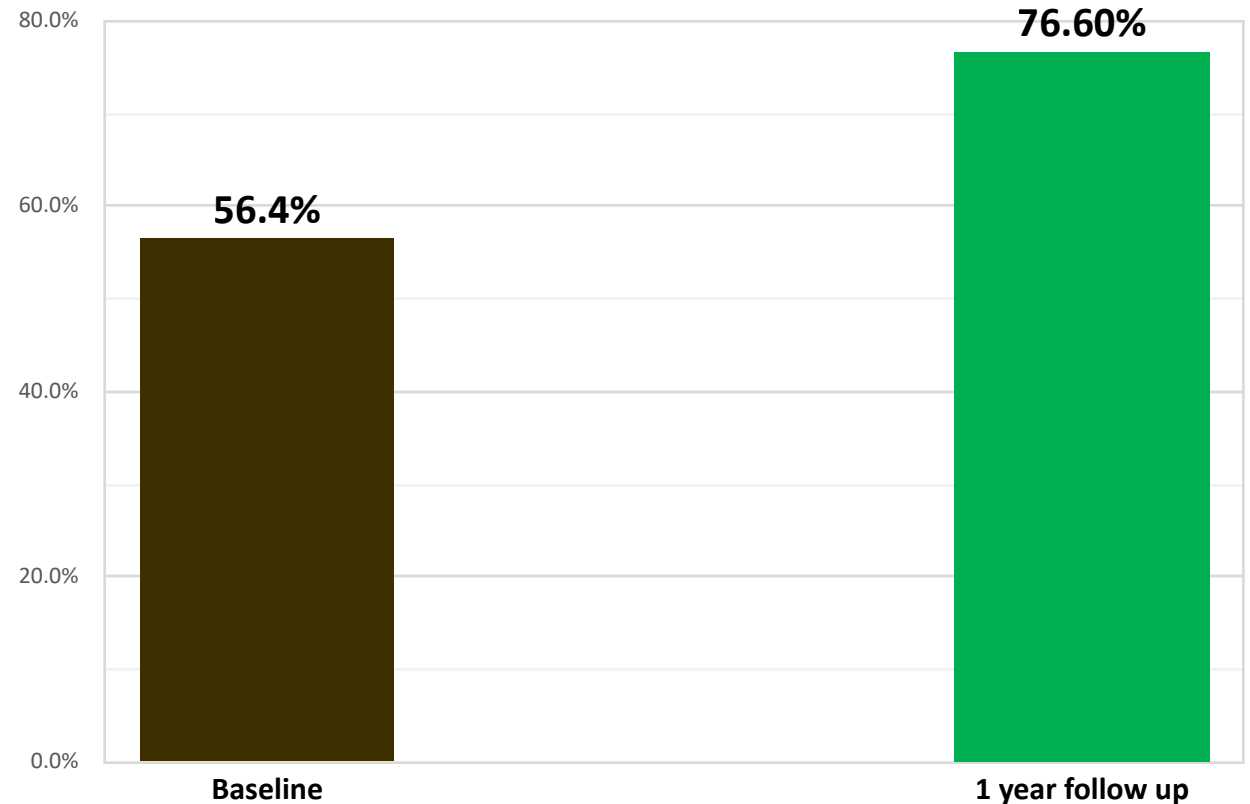


Adoption of regenerative farming techniques has a significant effect on household food security.

Crop diversity



Minimum Dietary Diversity



What are the key success to the adoption of regenerative climate resilience techniques at HH level?

Challenge – How is the adoption of regenerative farming methods in our respective countries? Is this something that warrants raising a red flag?

**Thank you for
your attention**

