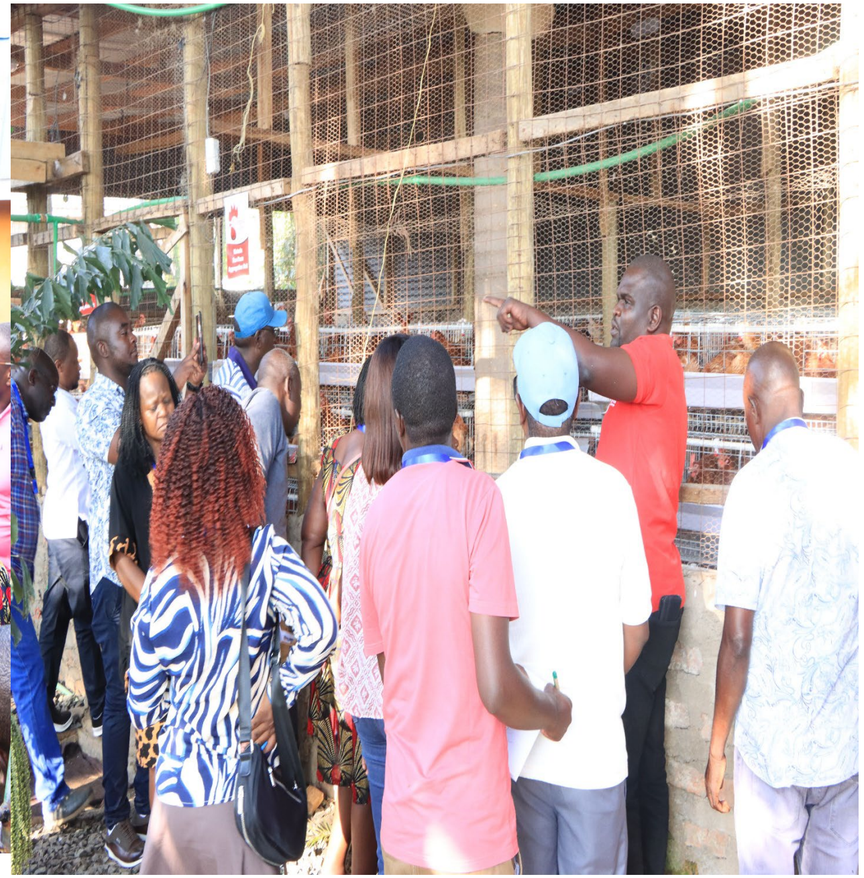


Field Visit Highlights

M-Taka Facility, Victoria Eco Farm and Peaknest Beekeeping Farm

Presenter: Edith Wairimu (PhD)

Date: 28.11.2025

Organization Overview

M-Taka: Tech-enabled waste management, circular economy approach.

Peaknest: Environmentally responsible beekeeping integrated with horticulture and poultry diversification.

Victoria Eco Farm: Sustainable poultry farming using contract farming and solar energy.

Organization focus and Business Models

Organization	Focus	Business models
M-Taka	Transform waste into a dignified resource	Public-Private Partnership (with County governments), Circular Economy
Victoria Eco Farm	Promote circularity in poultry and sustainable agriculture	Contract Farming Model; value-chain integration; agroecology
Peaknest Beekeeping	Lead in sustainable apiculture and biodiversity	Community-based model; diversified income streams through integrated farming

Technology & Innovation Integration

M-taka	Victoria Eco farm	Peak nest
▪ Digital waste tracking system, real-time data analytics, traceability solutions, tablet-based data entry	▪ Solar-powered hatchery, automated drinkers, feed production technologies, black soldier fly protein integration	▪ Use of Langstroth hives, locally manufactured hives, hive monitoring, honey processing equipment

Technology & Innovation Integration

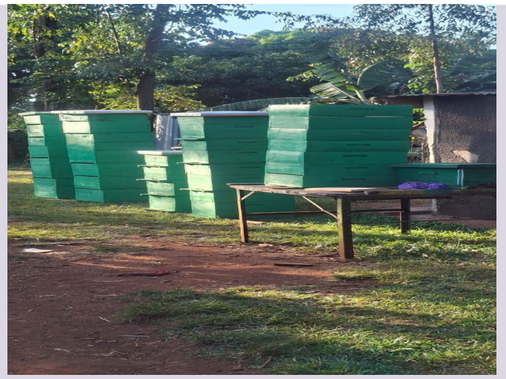
M-taka

- Digital waste tracking system, real-time data analytics, traceability solutions, tablet-based data entry

Victoria Eco farm

- Solar-powered hatchery, automated drinkers, feed production technologies, black soldier fly protein integration

Peak nest



- Use of Langstroth hives, locally manufactured hives, hive monitoring, honey processing equipment

Green Energy & Sustainability Practices

M-Taka

- Circular economy: turning waste into marketable resources, reducing landfill dependency.

Ecovictoria Farm

- Solar energy for hatchery, biogas from poultry droppings, organic fertilizers from manure.

Peaknest

- Bee-friendly horticulture, pollination services enhancing biodiversity, integrated poultry for energy and income stability.

Agribusiness & Production Practices

M-Taka	▪ Waste sorting, baling, recycling; supplying manufacturers; circular economy approach
Victoria Eco Farm	▪ Poultry hatching, feed production, contract farming with 4,332 farmers; extension services and technical support
Peaknest	▪ Honey production, queen bee breeding, beeswax & propolis, horticulture integration, diversified revenue streams

Strengths

M-Taka	▪ Technology backbone, dignifies waste workers, successful public-private partnerships
Victoria Eco Farm	▪ Circular poultry model, solar energy adoption, strong farmer support via contract farming
Peaknest	▪ Community inclusion, biodiversity focus, diversified income through bees, poultry, and horticulture

Challenges

M-Taka

- ✓Price fluctuation for recycled plastics
- ✓Competition,
- ✓Cost disadvantage of recycled vs virgin plastics

Victoria Eco farm

- ✓Accessing sick birds,
- ✓Fragile egg transport,
- ✓ Rising cost of inputs like fishmeal & soybean

Peaknest

- ✓Seasonal nectar shortages, predators (snakes),
- ✓limited market access,
- ✓vulnerability to dry seasons

Partnerships & Collaboration

M-Taka	County governments, GIZ, Practical Action; public-private partnership model
Victoria Eco farm	USAID, MEDA, farmer cooperatives; contract farming networks across six counties
Peaknest	County governments, NGOs, research institutions, local farmers; community-driven collaboration

INSIGHTS

Common aspects

Innovation, sustainability, circularity, community empowerment, diversified income.

Contrasts

- M-Taka -Tech-enabled Victoria Eco Farm-Contract farming, circular poultry production, solar-powered operations
- Peaknest - Sustainable apiculture, biodiversity integration, income diversification

Business Models

- M-Taka - Public-private partnership & circular economy
- Victoria Eco Farm-Contract farming & value chain integration
- Peaknest -Community-based integrated farming

THANK YOU

PHOTOS