A groundbreaking 6-hectare farming model integrating ecological restoration, sustainable agriculture, and community development.

The 6-Hectare Syntropic Farming Block

Ecosystem Restoration

Transforming degraded land through syntropic agriculture by mimicking natural forest succession. We create biodiverse agricultural systems that restore soil, increase biodiversity, and sequester carbon.

Community Empowerment

A community-driven model where 79% of profits support local development and preserve indigenous agricultural wisdom. We empower farmers with knowledge and economic opportunities.

Soil Health Transformation

Rebuilding ecosystems by integrating biodynamic and regenerative farming principles. Our approach focuses on soil microbiome restoration and creating resilient agricultural landscapes.

Sustainable Infrastructure

Providing critical infrastructure, knowledge transfer, and innovative tools to create a scalable pathway to agricultural resilience. Connecting technology, wisdom, and ecological principles.

Why Regenerative Agriculture?

1 Land Restoration

The land is calling for restoration, as the soil is tired and depleted. Traditional farming models have extracted resources without replenishment, leaving behind eroded soils and fragile communities.

2 Climate Change Resilience

Zambian communities face rising temperatures, droughts, and dwindling soil fertility. Diverse planting systems and syntropic farming create farms that thrive in spite of climate change.

3 Community Prosperity

Communities deserve to prosper from their labor. 79% of all profits go directly to the people who work the land, with the remaining 21% reinvested to expand this model.

The Structure:
Two Complementary Zones

Perimeter Zone

Syntropic Agroforestry Belt: Mimics natural ecosystems to restore soil health, boost biodiversity, and enhance resilience. Focuses on successional planting, biodiversity, and natural soil enrichment through techniques like chop-and-drop mulching.

Core Zone

High-Value Crop and Livestock Hub: Dedicated to high-value crop production, livestock integration, and post-harvest processing. A space where science, tradition, and innovation create a sustainable, profitable farming model.

Syntropic Farming: Regenerating the Soil

Soil Regeneration

Chop-and-drop techniques enrich the soil with organic matter, fostering microbial life and enhancing fertility. Mycelium networks support nutrient sharing.

Water Efficiency

Layered planting structures retain moisture and prevent erosion, while deep-rooted trees draw water from lower soil layers, making the system drought-resilient.

Biodiversity & Pest Control

Polycultures replicate natural ecosystems, reducing pest pressure. Natural repellents and pollinator integration through beekeeping enhance crop yields.

Perimeter Zone: A Natural Shield

1

Protecting Core Crops

The perimeter acts as a natural shield, protecting the chili crops from wind, heat, and soil erosion.

2

Continuous Harvests

Offers diverse crops like avocados, mangoes, and medicinal plants, ensuring year-round harvests and additional income streams.

3

Preserving Knowledge

Integrating indigenous fruit trees and medicinal plants safeguards traditional ecological knowledge and biodiversity.

Core Zone: Economic Powerhouse

Chili Cultivation

60% of Core Zone: Guaranteed revenue stream backed by signed contracts at $1,000 per ton, with an expected yield of 40 tons every 3.5 months.

Diverse High-Value Crops

40% of Core Zone: Vegetables, root crops, tubers, and perennial fruit crops enhance economic resilience and food security.

Livestock Management

Chickens provide nutrient cycling, pest management, and income diversification through the sale of eggs and poultry.

Infrastructure: Maximizing Efficiency

Solar Irrigation

A 5,000-litre tank is filled using solar pumps, and the water is distributed through a gravity-fed drip irrigation system, ensuring water efficiency.

Greenhouse

A greenhouse within the Core Zone is used for seed propagation, ensuring a steady supply of seedlings and young plants.

Dedicated Nursery

A dedicated nursery will be established just outside the 6-Hectare Block, ensuring a consistent supply of seedlings and plants.