CIRCULAR FOOD SYSTEMS FOR RWANDA

AFRICAN CIRCULAR ECONOMY NETWORK

SCALING REGENERATIVE AGRICULTURAL PRACTICES IN RWANDA

INTRODUCTION

The Africa Circular Economy Network (ACEN), in partnership with WRI, the IKEA Foundation, CPCIC, and Resonance, is supporting Rwandan businesses through the Circular Food Systems for Rwanda (CIRF) programme to transition from linear to circular food systems.

The programme helps enterprises adopt regenerative practices, cut food loss and waste, and create value from by-products. One example is Glory Poultry Farm in Nyagatare District, Rwanda's Eastern Province, which produces crops, poultry, pigs, and manure, and recently expanded into compost.

With CIRF's technical support, the farm has embraced circular practices that boost productivity, improve soil health, and enhance resource efficiency, contributing to a more sustainable and climate-resilient food economy in Rwanda.

Learn more at **acen.africa**



Since introducing cover crops, we no longer need to do weeding, which saves us time and 196,000 francs ($135.4) each season. Intercropping has also created an additional income stream. ***I now use crop waste as animal feed instead of buying it, saving 2.4 million francs ($1658) a year.***

Agatha Mukagacinya
Founder, Glory Poultry Farm

TRANSFORMATION AT GLORY POULTRY FARM



BEST PIG FARMING PRACTICES

Transitioned to circular and sustainable pig farming systems. Pigs increased from **60 to 300** juveniles through improved management practices.



POST HARVEST STORAGE FACILITIES

Introduction of post harvest storage facilities to store crops on farm and to reduce post harvest loss.



CONSERVATION AGIRCULTURE

Implemented conservation agriculture on selected plots, which include practices such as using compost as a farming input & introducing biological pest control, leading to higher crop yields & reduced labour costs due to the introduction of cover crops



COMPOST PRODUCTION

Developed compost as a new circular product, with the capacity to produce up to **286 tons** per season for on-farm use and commercial sale.



WATER MANAGEMENT

Enhanced groundwater retention and reduced runoff through landscape-based water management techniques.



SOIL EROSION CONTROL

Cover crops like desmodium, beans, and pumpkins were planted to reduce water evaporation and soil erosion, while swales and compost pits were built around banana trees to retain groundwater and protect topsoil.

IMPACT OF CIRF

REVENUE FROM CIRCULAR PRODUCTION

Average monthly revenue generated

FROM **$500** ~ TO **$6,912**

JOB CREATION

40 new permanent employees due to TA.

LAND USE TRANSFORMATION

80% of 38 hectare cultivated land is now managed under regenerative agricultural practices.

COST SAVINGS

$183 saved per month through improved resource efficiency and reduced input costs

PRODUCTIVITY INCREASE

FROM **10** ~ TO **70+**
liters of milk per day

FROM **30** ~ TO **150+**
eggs produced per day

FROM **2** ~ TO **14+**
tons of organic fertiliser per month

Learn more at **circularfoodsystemsrwanda**.org

WORLD RESOURCES INSTITUTE

IKEA

GLORY MIXED FARM
Heart of Perfect Farming

CLEANER PRODUCTION AND CLIMATE INNOVATION CENTRE