

RESEARCH AND DEVELOPMENT FUND PROJECT SPOTLIGHT

Savanna Circuit Technologies

Eco-Sav Universal Chiller - Innovating Cooling-on-the-Go in East Africa

Project Summary

This project will reduce fish and milk spoilage and increase income for smallholder farmers in East Africa through innovative mobile cooling technology.

Project Description

Savanna Circuit Technologies (SCT) introduces the EcoSav Universal Chiller, a mobile chiller powered by solar energy, coupled with a centralised ice-water dispensing unit. Designed for use in East Africa's Lake Victoria and Arid and Semi-Arid Lands ASAL regions, this chiller helps farmers keep their fish, meat, and milk fresh. Operating between 5°C and -22°C, the chiller includes real-time monitoring to ensure quality.

The EcoSav Chiller addresses the significant problem of food spoilage, which affects 20% to 47% of harvests. By keeping produce fresh, it helps farmers reduce waste, secure better prices, and improve their incomes. This project supports food security and economic resilience.

SCT will develop and test the EcoSav Chiller in Kenya's dairy and fish areas and involves research, prototype development, and field testing.

Founded in Kenya in 2017, SCT has its manufacturing hub in Nairobi and has a successful history of creating mobile solar coolers. Their MaziwaPlus Prechiller increased farmers' incomes by 37%. With their manufacturing facility in Nairobi, SCT are ready to bring the EcoSav Chiller to market, helping farmers thrive and promoting sustainable agriculture.



R&D Partner

Savanna Circuit Technologies

Organisation Founded

July 2017

Technology

Mobile cooling

Project Location

Kenya

