



SAVANNA CIRCUIT TECHNOLOGIES

Using portable solar and digital technologies to cut post-harvest milk losses and enhance last-mile distribution.



CHALLENGE

According to Food and Agriculture Organization (FAO) 2014 data, Kenya loses approximately 95 million litres of milk annually, accounting for USD 22.4 million annually; the impact is mainly significant at the farm level. Post-harvest losses in the dairy industry include losses at the farm level after milking and through the market chain up to consumption. This is the raw, fresh milk or its various product forms that get spoiled due to poor handling and lack of cooling facilities.



INITIATIVE

Savanna Circuit Technologies, a Kenyan youth-led manufacturing and last-mile distribution company, is tackling post-harvest milk loss by dairy farmers and cooperatives with portable solar milk chillers and quality control equipment. In addition, Savanna has developed a farmer management system offering real-time data from collection points -while cutting milk spillage and spoilage for maximised profits through a lease model.



RESULT

Savanna's impact in Kenya can be best illustrated through its support to farmer cooperatives in Kaptabuk village in the western region. In 2019, Savanna engaged cooperatives to pilot its technologies. During implementation, no losses were registered for milk transported via Savanna's chillers, as quality checks at the farm gate allowed feedback in case of rejection. As a result, milk quality improved, resulting in better incomes for farmers, especially the women and youth supported. After a year, there was significant growth – more than 150% improvement – in key dairy performance indicators: milk quality, production and farmer income, among others. Savanna Circuit Technologies is supported with funding from the UK government through the Kenya Catalytic Jobs Fund.