Cropin

Unleashing the technological power of digital financial lending & analysis for credit co-operatives in Kenya

REGION: Nigeria; West and Central Africa (WCA)



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The data-driven potential of digital financial lending & analysis for credit co-operatives in Kenya

The agricultural sector is the backbone of the Kenyan economy, contributing 33% of its Gross Domestic Product (GDP). Over 40% of the total population and 70% of the rural population is involved in agricultural activities. However, small-scale farmers, in particular, are struggling with no access to compatible and secure digital loans.

Across sub-Saharan Africa, including Kenya, you'll find the prevalence of **Savings and Credit Co-operative Societies (SACCOs)**. These co-operatives are member-owned, democratically run, and play an instrumental role in the financial lives of vulnerable farmers.



In partnership with SACCO (Co-operatives) of Kenya, KUSCCO helps farmers grow potatoes, sorghum, etc. KUSCCO with Cropin targeted to tap Africa's high comfort level with mobile services to support the unbanked. The project was started in 2019 to monitor farms remotely and leverage predictive modelling applications and is now complete. This collaboration set into motion a new way of loan disbursement, managing loan underwriting and loan delinquency for the lending arm.

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Striving to develop a robust 'finance-data-farmer' matrix

The loan origination and underwriting trap

Most farmers struggle with the loan origination and underwriting process. The incompatibility of traditional loan models to farmers' individualized needs compounded the lack of working capital issue in the high credit risk agricultural sector. The complex loan disbursement process dampened the farmer's ability to produce profitable yields - a concern the partnership aimed to address with Cropin's Lending Platform Integration capabilities.

The ineffective data capture process

Another crippling issue was the inefficient data capturing process across the value chain. Insights into farmer productivity, sales, and market were non-existent. The project targeted to close the gap by leveraging Cropin's capabilities to gather accurate and real-time loan-related information from farmers.



Poor farmer engagement

The third biggest concern was poor levels of farmer engagement. This brings to the limelight the reach and intensity of digitization among farmers. Two factors that immediately come out are low usage of technology and improper training. Cropin's advisory services could assist in this regard.

Little to no visibility of field team activities

Finally, the limited visibility into on-field activities with no control led to poorer quality output. Additionally, the lack of best practices know-how and absence of productivity enhancement inputs impacted the agricultural value chain. In response, Cropin's technological platforms doubled up as powerful partners, enabling farmers to access yield-enhancing solutions at the right time (and within a perfect localized context).



Cropin's holistic program: working towards developing advisory, adaptability, digitalization, and knowledge building

Cropin's 360-degree program strives to address specific pain points throughout the value chain with innovative strategies such as:

Digitalization across the value chain

Cropin's digitalization efforts included remote monitoring and managing paddy crops across agricultural plots in Kenya and collecting vegetable indices data. Farmers could access yield and water stress distribution estimates. Cropin platform monitored crop health, which provided visibility on loan health post disbursal. Other data-driven benefits included insights into Crop Stage monitoring, Land Under Cultivation and Harvest Date - all of which helped monitor fund usage. Finally, farmers could improve productivity by leveraging real-time alerts to minimize losses and take a right preventive action.

An enviable tech stack for high-quality output

To drive the processes, Cropin used a suite of technologies like geospatial imaging, AI/ML-powered predictive modeling, IoT integration, Lending Platform integration, Intuitive SISENSE-powered dashboards, and geo tagging.







Cropin Company Profile

Founded in 2010, Cropin is a global Agtech pioneer who has built the world's first purpose-built industry cloud for Agriculture - Cropin Cloud, an Intelligent Agriculture Cloud.

Cropin Cloud enables various stakeholders in the agri-ecosystem to leverage digitization and predictive intelligence to make effective decisions that increase farming efficiency, scale productivity, manage risk and environmental changes and enhance sustainability. Cropin has been instrumental in creating the global Agtech category and bringing advanced technologies together to transform farmers' lives worldwide through partnerships with agri-businesses, governments and development agencies across 56 countries. They helped the ecosystem to eliminate the uncertainties associated with farming and made it predictable, traceable, and sustainable.

Cropin Cloud combines cutting-edge technologies, including artificial intelligence, machine learning, data science, satellite imagery, and remote sensing. It helps derive real-time actionable insights to build a connected and sustainable agri-ecosystem that can benefit farmers, farming companies, agri-input providers, food processing companies, retailers, financial service providers, governments and development agencies.

Cropin has partnered with over 250 B2B customers and digitized 16 million acres of farmland, improving the livelihoods of more than 7 million farmers. Our work over the last decade has enabled us to spearhead a global 'Ag-intelligence' movement with a crop knowledge graph of 488 crops and 10000 crop varieties in 56 countries that powers the Cropin Cloud. Cropin Cloud's Intelligence platform has already computed and provided predictive intelligence for over 0.2 billion acres of farmlands across the globe.



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