



DATA-DRIVEN INSIGHTS,  
IMPACTFUL DECISIONS

# SMARTCANE AT A GLANCE



Enhance your sugarcane production and transform your decision-making process with SmartCane. Our innovative solution harnesses the power of remote sensing and agronomic expertise to provide valuable crop data and management advice to both sugarcane estates and smallholder farmers. Say hello to a future of efficient and informed farming with SmartCane: valuable crop data and expert management advice is always closeby.



## EMPOWERING FARMERS FOR GREATER PRODUCTIVITY

Farmers often struggle with low yields and a lack of guidance in sugarcane production. With SmartCane, you can overcome these challenges and unlock the full potential of your crops. Our affordable and user-friendly SMS messages deliver remote sensing based actionable advice on weed management, monitoring recommendations, and more. You will experience improved productivity and increased crop yield by making informed decisions based on timely information.



## OPTIMISE SUGARCANE ESTATE MANAGEMENT

Sugarcane estates face the daunting task of effectively managing vast fields and limited resources. SmartCane is here to simplify your field management and resource allocation processes. Our weekly overview maps, provided in phone-friendly PDF format at an affordable rate, offer valuable insights into growth patterns and field heterogeneity. With this information at your fingertips, you can monitor crop growth, prioritise necessary actions, and achieve optimal resource utilisation. Your estate technicians can also receive comprehensive advice through SMS messages tailored to your specific requirements.





# THE POWER OF SMARTCANE



## Support for all



We believe in supporting every member of the farming community, from farmers to technical staff. Our satellite-derived information and agro-nomic advice are provided in the local language, promoting inclusivity and enabling effective communication across all levels. By having regular weekly calls and staying connected through WhatsApp updates, we strive to provide a personalized approach that enables us to truly comprehend the challenges you encounter.



## Simplified approach



Unlike other services that use complex dashboards that rely heavily on the internet, we deliver information solution-oriented. Our SMS messages and maps condense complex data into easily understandable formats, ensuring simplicity, offline access, and ease of implementation.



## Data collection made easy



We understand the challenges of data collection and its impact on farmers' accessibility. That's why we employ a network of ambassadors recruited from farmers to collect field data for model verification. By handling data collection and processing, we alleviate the burden on our clients, reducing their workload.



## Tailored solutions



We recognise that every client is unique, with diverse operational models and information requirements. Our versatile technical-toolbox allows us to tailor our services to meet your specific needs, ensuring scalability and personalised support.



## SMARTCANE FOR ESTATES

At SmartCane, we understand the challenges sugarcane estates face in managing multiple fields and optimising resource allocation. Our comprehensive solution is designed to enhance your agronomic management and maximise crop growth and yield. After the Smartcane team gathers GPS points of the stressed areas in your field and historical yield data, you can relax and let the process unfold. You will automatically receive weekly maps accompanied by personalized advice and phone calls. With SmartCane for Estates, you can access valuable insights and tools that empower you to make informed decisions and drive efficiency in sugarcane production.



### WEEKLY OVERVIEW MAPS

Get a birds-eye view of your fields with our easy-to-use, phone-friendly PDF maps. These maps provide valuable insights into growth patterns and heterogeneity across different areas of each field, enabling you to monitor and predict crop growth effectively. Identify areas experiencing crop stress, reduced growth, weed infestation, or nutrient deficiencies at a glance.



### TIMELY INPUT DATA FOR THE MILL

Stay ahead of the game by providing the mill with timely input data regarding the order of harvesting fields. This seamless flow of information ensures efficient processing and reduces delays, benefiting both your estate and the mill.



### RESOURCE ALLOCATION OPTIMISATION

Allocate your limited resources, such as seeds, water, time, and manpower, more effectively. Our overview maps help you prioritise necessary actions for different sections of each field, ensuring optimal resource utilisation and cost savings.



### ENHANCED DECISION-MAKING

With SmartCane, you have access to comprehensive reports on crop stress, weeding alerts, irrigation support, and growth and heterogeneity indexes. These insights enable you to make data-driven decisions, improving overall field management and optimising your agronomic practices.



### ACCURATE YIELD FORECASTING

Leverage our satellite data and sophisticated yield prediction models to monitor crop growth several months before the intended harvesting date. Based solely on historical yield data, our accuracy for predicting crop yield is within a range of  $\pm 7$  tons per hectare. Make informed decisions about harvesting fields based on accurate yield forecasts, enabling you to streamline your operations and plan ahead.



### OUTGROWER TECHNICAL SUPPORT

In addition to estate support, SmartCane also provides Outgrower Technical Support. We understand the importance of supporting the farmers associated with your estate. Our team of experts offers technical assistance, training, and guidance to the outgrowers, ensuring they receive the necessary support to optimise their sugarcane farming practices. By fostering strong relationships and providing comprehensive support, we help you create a thriving ecosystem that benefits both the estate and the outgrowers.



## SMARTCANE FOR OUTGROWERS

SmartCane understands the importance of supporting outgrower farmers in their journey towards successful sugarcane cultivation. Our Outgrower Farmer Support service is specifically designed to provide farmers with the necessary tools and knowledge to optimise their yields and make informed decisions. With SmartCane, you can enhance your farming practices, receive timely agronomic advice, and access valuable insights to maximise your crop's potential.



### NEAR-REAL TIME AGRONOMIC ADVICE AND REMINDERS

Receive timely agronomic advice and reminders through SMS, informing you about crucial farming activities. SmartCane keeps you updated from planting to harvesting and provides recommendations to enhance your crop's health and productivity. Additionally, you can choose to receive other types of information relevant to your farming needs.



### INSIGHTS INTO CANE GROWTH FOR OPTIMAL HARVESTING

SmartCane provides you with insights into cane growth patterns, allowing you to optimise your harvesting strategy. By understanding the growth stages and maturity of your crop, you can plan your harvesting operations more effectively, resulting in improved yields and higher quality cane.



### STRESS ALERTS

SmartCane helps you identify and address crop stress through SMS alerts. We notify you of potential risks or stress factors by monitoring key indicators. This empowers you to take proactive measures and safeguard your crop against adverse conditions.



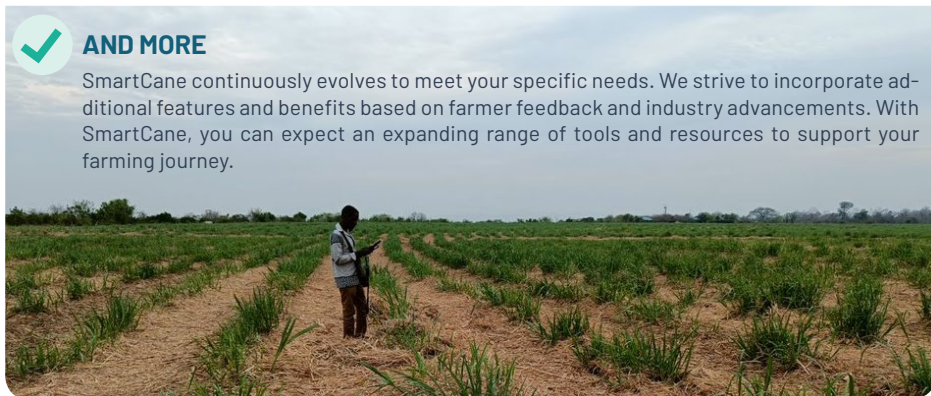
### LEARNING RESOURCES FOR CANE GROWING AND STRESS RECOGNITION

SmartCane equips you with valuable knowledge about sugarcane cultivation. Our platform provides resources on cane growing techniques, stress recognition, and appropriate measures to address different stress factors. Accessing this information enhances your ability to make informed decisions and adopt best practices for optimal crop growth.



### AND MORE

SmartCane continuously evolves to meet your specific needs. We strive to incorporate additional features and benefits based on farmer feedback and industry advancements. With SmartCane, you can expect an expanding range of tools and resources to support your farming journey.



## DEMONSTRATIONS TO EXPERIENCE THE BENEFITS

Curious to see the power of SmartCane in action? We offer demonstrations for a portion of your estate, covering 200 hectares for 6 months. Conditions apply, and you can reach out to us to request a demonstration tailored to your needs. This hands-on experience will showcase how our service can revolutionise your estate management and help you achieve exceptional results.



## AFFORDABLE PRICING AND FLEXIBLE OPTIONS



**SMARTCANE FOR ESTATES** offers competitive pricing that is designed to meet the needs of sugarcane estates of all sizes. Our base pricing starts at €25 per hectare per year for estates with a minimum size of 2000 hectares. However, we understand that larger areas or long-term agreements may require additional flexibility. That's why we are open to discussing customised pricing options for estates with larger areas or multi-year contracts.



**SMARTCANE'S OUTGROWER FARMER SUPPORT SERVICE** is priced at just €20 per hectare per year, making it accessible to farmers of all sizes. We believe that access to advanced farming technology and support should not be limited by cost. With SmartCane, you can benefit from our services without breaking your budget.





## AN INNOVATIVE SPINOFF

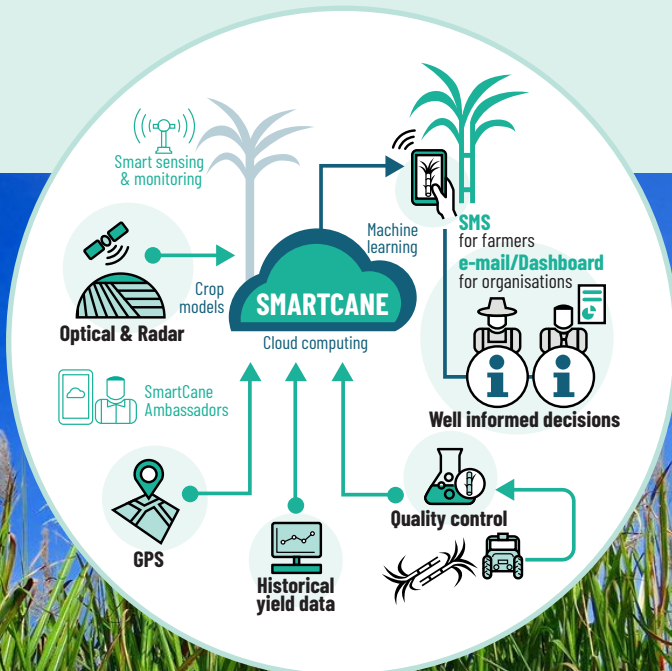
SmartCane is an innovative spinoff from the Resilience Network, which includes Smart-farming BV and IRIPO Lda. At SmartCane, we are driven by a passion for agriculture, academic knowledge, and the embrace of digital solutions. With 15 years of experience in the agricultural sector, our main objective is to drive positive social change by empowering farmers and revolutionising the approach to sugarcane farming.

## MAKING A MEANINGFUL IMPACT

Our focus goes beyond technology; we are committed to making a meaningful impact on society. By providing accessible and user-friendly tools that enhance agricultural productivity and sustainability, we strive to uplift farming communities. Our mission is to contribute to local economies, food security, and the overall well-being of communities.

## COMPREHENSIVE SOLUTIONS FOR SUGARCANE FARMING

SmartCane offers comprehensive solutions designed to optimise sugarcane farming operations. Our offerings include agronomic insights, smart monitoring systems, and personalised assistance. We are dedicated to delivering value to farmers by equipping them with the necessary tools to overcome challenges and achieve remarkable results.



# WHY CHOOSE SMARTCANE?

## TAILORED SOLUTIONS

We understand that every estate is unique. SmartCane offers versatile modules and a technical-toolbox that allows us to tailor our services to your specific needs. Whether you have a large estate with centralised management or operate under an outgrower scheme, our solutions can be personalised to suit your requirements.

## USER-FRIENDLY APPROACH

Unlike complex, internet-heavy dashboards, we believe in simplicity and ease of understanding. Our weekly overview maps and SMS messages deliver complex information in a straightforward and accessible manner. You and your team can access and interpret the data offline, ensuring uninterrupted access to critical information.

## PERSONALISED WEEKLY CONSULTATIONS

At SmartCane, we go the extra mile to ensure your success. As part of our Estate Support service, we offer personalised weekly consultations with our expert team. During these interactive calls, we discuss the latest maps, trends, and insights related to your estate. We provide you with valuable guidance and recommendations based on the data gathered, empowering you to make strategic decisions that drive your estate's performance forward.



## LOCAL LANGUAGE SUPPORT

We recognise the importance of effective communication. SmartCane provides information and agronomic advice in local languages, eliminating language barriers and enabling clear understanding and action. We aim to ensure that all members of your estate can act and communicate based on the same understanding.

## EXPERT SUPPORT AND AMBASSADORS

Our team consists of academically trained experts in agronomy, data analytics, remote sensing, and digital solutions. We also recruit ambassadors from local communities who serve as a vital link between SmartCane and farmers. These ambassadors, being active field workers and cooperative members themselves, offer support, facilitate communication, and ensure regular data collection and examination in targeted areas.

## TAILORED SOLUTIONS AND CONTINUOUS UPDATES

At SmartCane, we are committed to providing solutions that are specifically tailored to your estate's requirements. We understand that each estate has unique challenges and goals. Our team of experts continuously updates our service to incorporate the latest advancements and insights in sugarcane farming. We are also flexible in including specifically tailored features to meet your estate's needs.

## RESILIENCE

Resilience B.V. specialises in researching and managing complex, interdisciplinary agricultural projects in development contexts. With expertise built over the past 15 years, Resilience has successfully implemented agriculture and water projects in various countries. Our services and projects prioritise user-centred analysis and advocate for environmental and social sustainability.

## WHO WE ARE



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