

# Alliance for a Green Revolution in Africa (AGRA) Project

LOCATION: East and Southern Africa and West and Central Africa; Ghana, Nigeria, Burkina Faso, Mali, Tanzania, and Mozambique





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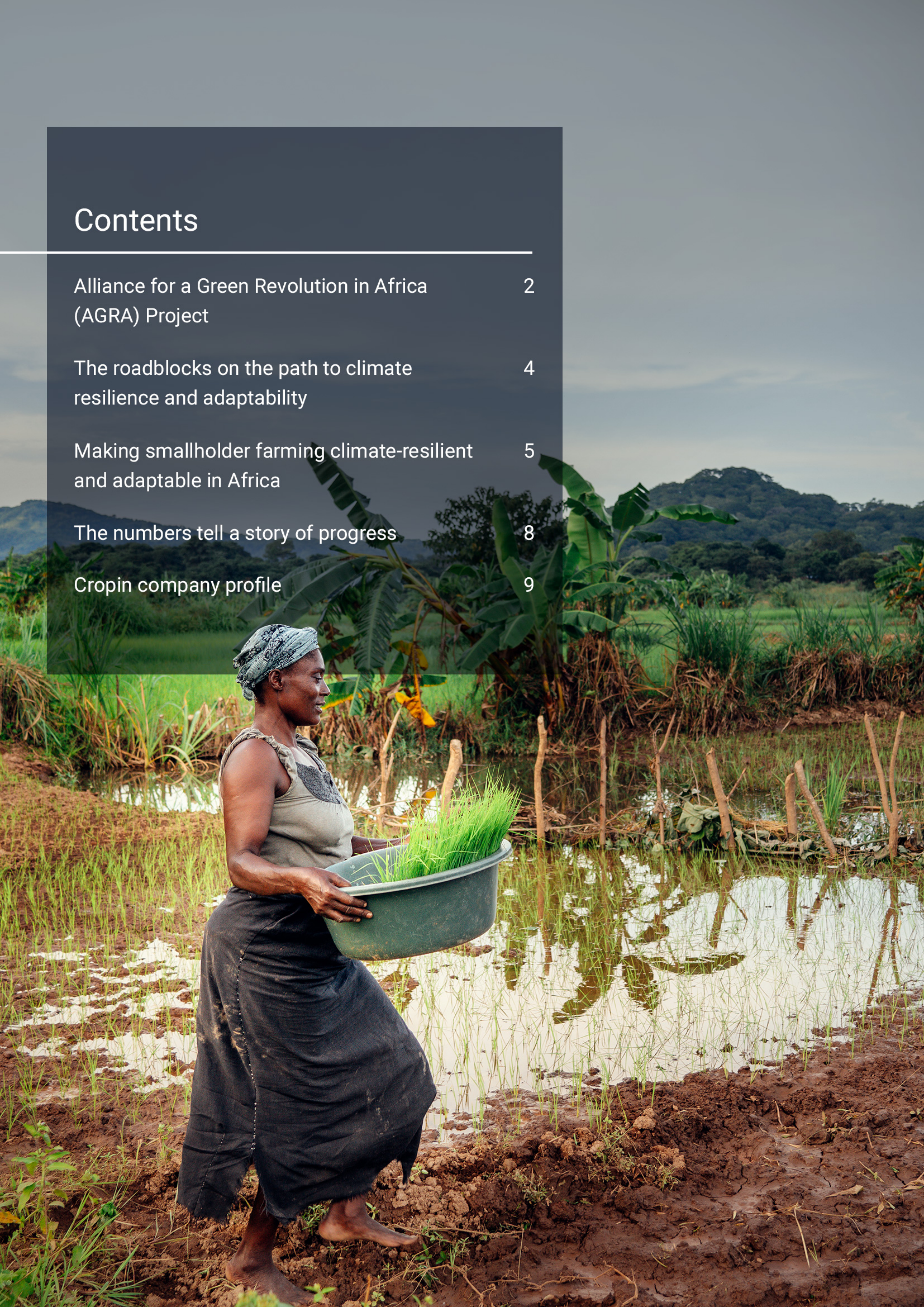
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# Alliance for a Green Revolution in Africa (AGRA) Project:

## Why Africa needs climate-resilient and adaptable agricultural systems

Agriculture is key to Africa's economic growth and development. It provides employment to more than 50% of the population, and agricultural products contribute a significant amount to the country's GDP. The majority of those engaged in agriculture are smallholder farmers who have to tackle multiple challenges to make a living from agriculture. The lack of resilient and adaptive agricultural production systems has made Africa particularly vulnerable to the effects of climate change. Extreme weather events have become more frequent and severe, and pest- and disease-related challenges such as locust attacks have increased.







**A project by Cropin and Alliance for a Green Revolution in Africa (AGRA), which focuses on climate adaptation and climate resilience in agriculture, has brought much relief to smallholder farmers in Ghana, Nigeria, Burkina Faso, Mali, Tanzania, and Mozambique.**

Cropin and AGRA, an international development organization, have partnered on a project to build highly productive agricultural systems for farmers that are resilient and adaptable to climate change. The project started in 2020 and has positively impacted the lives of 3 million smallholder farmers with the benefits of technology.



# The roadblocks on the path to climate resilience and adaptability

Blessed with vast tracts of land that can be cultivated across most countries, **Africa has tremendous agricultural potential.** However, most of the farming is done by smallholder subsistence farmers, who lack access to quality inputs and the latest farming technology. They also lack the knowledge to efficiently use land, water, fertilizers, and pesticides to maximize production.

Drastic climate change events such as extreme heat and droughts, devastating floods and storms, and an increase in destructive agricultural pests add to their problems. The COVID-19 pandemic and a locust infestation around the same period have led to massive agricultural and livelihood losses.

Modernizing the agricultural sector would be the first step toward building agricultural resilience in Africa. Investing in farming techniques that are science and technology-based could lead to climate-resilient, cost-effective, and sustainable farming methods. **Initiated in 2020 and ongoing now, the Cropin-AGRA initiative attempts to reduce some of the challenges faced by smallholder farmers in Africa.**





# Making smallholder farming climate-resilient and adaptable in Africa

The Cropin-AGRA project for smallholder farmers in Ghana, Nigeria, Burkina Faso, Mali, Tanzania, and Mozambique focuses on



piloting and then scaling digital solutions,



adapting them to the local context, and



offering farmer advisory services, capacity building and training, and knowledge management.





AGRA is an alliance led by Africans with origins in farming communities across the continent. It works for inclusive agricultural transformation in Africa by increasing incomes and improving food security for farming households in 11 focus countries and targets to touch 30 million farming households by 2021. **AGRA collaborates with African governments, the private sector, civil society institutions, and development partners in the agricultural sector to bring about and sustain inclusive agricultural transformation in Africa.**



Cropin initiated the project with test programs to check the adaptability of pilot solutions to local conditions. It then adopted the digital solutions to suit local needs and scaled them across the target area. Applications were localized for multi-country operations.


Cropin's platform digitalized agricultural operations end-to-end in the six countries it was launched. Agricultural plots were geotagged and farm and farmers' data were digitized for accessibility through a centralized cloud platform.

Farmers were provided support with the **Package of Practice (PoP)** best suited for a specific crop and region. Agricultural inputs such as seeds, water, fertilizers, pesticides, etc., were tracked for compliance with dosages.

Farmers were provided with information about the best periods for sowing. Timely pest and disease alerts prevented large-scale infestations and protected crops.

Crop monitoring for health, yield detection, and harvest readiness became stress-free for farmers with Cropin's technology support. The digital platform helped with better practices and advisory, resulting in reduced production losses. This in turn enabled farmers to get better prices for their agricultural produce.



A smiling man with a beard, wearing a straw hat and a green and orange plaid shirt, gives a thumbs up. He is standing in a field with a blurred background.

Cropin's advisory services provided farmers access to **information on best practices, SMS-based weather alerts, pest and diseases warnings, and crop protection advisories** for timely action to prevent crop losses. The company's weather-based advisory helped promote climate-smart agricultural practices among the farmers.

Best practices training by the field team helped farmers **upgrade farming skills** to precisely plan agricultural operations and make data-based decisions for maximum advantage.

Training programs for field officers, data collection and monitoring through mobile application ensured widespread adoption of the digital solution..

Knowledge management was another key focus area for the project. Field officers were provided with user manuals and regular feature update alerts. Streamlining data organization and management on the platform assured easy access to information for farmers.



# The numbers tell a story of progress

Increasing farmers' access to extension services by digitizing Village Based Advisors (VBAs) is vital to AGRA's larger plan for agricultural transformation in Africa. Cropin's training programs benefitted 10,626 entrepreneurial VBAs, thereby allowing project benefits to reach 3-million smallholder farmers. The digital presence of VBAs enabled better engagement with farmers.

Agricultural practices and the productivity and income of farmers across Ghana, Nigeria, Burkina Faso, Mali, Tanzania, and Mozambique improved through the digital solutions, information, and advisories provided by the Cropin-AGRA project.

The project has led to creating a sustainable environment that promotes the overall development of the region, now and for the future — through local employment and entrepreneurship and by providing farmers access to adaptive, resilient, and highly productive agricultural systems.





# Cropin company profile

**Founded in 2010, Cropin is a pioneer in the Agtech space building the first global Intelligent Agriculture Cloud.** Cropin's suite of products enables various stakeholders in the agri-ecosystem, leveraging digitization and predictive intelligence to make effective decisions that increase farming efficiency, scale productivity, and enhance sustainability. Cropin was instrumental in creating the global agtech category and enabled advanced technologies to transform the lives of farmers worldwide through our enterprise customer relationships across 56 countries. We helped the ecosystem to eliminate the uncertainties associated with farming and made it predictable, traceable, and sustainable.

**Cropin's intelligent interconnected data platform uses cutting-edge technologies including artificial intelligence, machine learning, data science, satellite imagery, and remote sensing, to derive real-time actionable insights and help build a 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 built an ecosystem of **250+ B2B customers** and has **digitized 16 million acres of farmland, improving the livelihoods of more than 7 million farmers.** It has built the world's largest farming data insights over a decade, spearheading a global 'Ag-intelligence' movement with a knowledge graph of **488 crops, 10000 crop varieties in 56 countries.** With its AI/ML platform tailor-made for the agriculture ecosystem, Cropin has computed **0.2 billion acres of farmland** across the globe.



**Website**

[www.Cropin.com](http://www.Cropin.com)



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