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## Farmerline Impact Case Study: The Ghanian Ministry of Food and Agriculture

Benjamin Lampe

Caleb Zatto

Marisa Rudolph

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# A Data Revolution

At the Statistics Research and Information Directorate (SRID), James Ayittey, a 17 year veteran of mass data collection, works in an office cramped by filing cabinets and boxes. He is the head of Information and Communication Technologies for SRID, overseeing MoFA employees who are piecing together piles of survey responses to understand the realities faced by Ghanaian farmers. The GAPS survey responses must be meticulously checked for errors and manually entered into the system before analysis occurs. Mr. Ayittey expressed frustration that processing takes even longer than conducting the surveys, leading to outdated reports. Despite these hurdles, Mr. Ayittey and his team are committed to holistically and efficiently portraying the needs of farmers to policy makers.

In an agricultural community south of Kumasi, farmers Margaret and Yaw work hard to make a living but often struggle to access or afford the necessary agricultural inputs. Their yields have been severely impacted by bushfires, an unpredictable environmental factor that causes instability in the lives of many farmers. To combat this instability, Margaret and Yaw seek reliable access to agricultural inputs. The Ghanaian government tries to deliver using extension officers and policy to support subsidies, but in Margaret and Yaw's experiences inputs are limited and arrive too late in the growing cycle, making them irrelevant for that production year. To address this issue, MoFA needs to transform data collection into an efficient, relevant process.

Our team of young, passionate software engineers set to work turning mountains of data into actionable insights. In collaboration with Mr. Ayittey, we created the CAPI data collection system customized for MoFA's extensive surveying process. It is "a form of revolution," Mr. Ayittey proclaimed as he excitedly described the benefits of our customized survey application. He firmly believes in CAPI's ability to be the spark MoFA needs to reach the UN's Sustainable Development Goals by providing timely, effective support to farmers like Margaret and Yaw.

Planting for Food and Jobs, a new policy that will use CAPI's surveys for implementation and monitoring, aims to decrease Ghana's reliance on imported food and increase support for farmers who are helping Ghana reach this goal, in essence leveraging all the government's available resources to improve agricultural livelihoods. By creating a responsive, efficient survey system in collaboration with the Ghanaian government, we at Farmerline are fulfilling our mission of transforming smallholder farmers into successful entrepreneurs.

1 Underserved Voices

1 NO POVERTY

2 Improve Production Data

2 NO HUNGER

Inform
Supportive
Policies

8 GOOD JOBS AND ECONOMIC GROWTH



Developed by Farmerline, Mergdata is a cloud-based communication, surveying, and data management tool. The combination of Android application and web service provides instant analysis of data collected in the field and allows broadcasting of voice and text messages to thousands of phones at once.





Farmerline is transforming smallholder farmers into successful entrepreneurs by increasing their access to information, inputs, and resources to increase productivity. Using the innovative Mergdata platform, Farmerline offers subscription-based information services to rural farmers and licenses its software to agribusinesses to bridge the information gap between organizations and farmers.

For more information visit: farmerline.co

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The Ministry of Food and Agriculture of Ghana's mission is to promote sustainable agriculture and thriving agribusinesses through research and technology development, effective extension and other support services to farmers, processors and traders for improved livelihood. MoFA works towards these goals by formulating, planning, and monitoring agricultural policy within the broader scheme of national economic development.

### **GHANA OFFICES**

- ♥ No. 7 Sapele Loop Kokomlemle, Accra – Ghana
- ♥ 10 Prof Sir Acheampong Street Plot 29 Block L Old Ahinsan, Kumasi – Ghana

**\+233 (0) 24 214 1333** +233 32 202 3183

### **US OFFICE**

♥ C/O A-M-Z @ Impact Hub 419 7th St NW suite 300 Washington, DC 20004 USA

★ team@farmerline.org

### SWITZERLAND OFFICE

- ♥ C/O Farmerline @ Impact Hub Viaduktstrasse 93, 8005 Zürich, Switzerland