

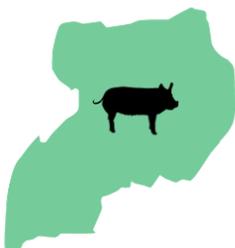
## 🔍 CASE STUDY PIGBOOST FOOD SECURITY

→ On average sows farrow once per year, produce 8 piglets, and finishing animals achieve less than 60% of the target sale weight for slaughter.

→ Presence of animal diseases and limited provision of animal health services costs pig farmers in Kampala US\$16 to US\$32M in animal losses annually

→ Currently in Uganda there is illegal trade of counterfeit veterinary medicine

→ The current lack of digital recording means farmers cannot select and breed pigs for their market.



In Uganda, there is a growing demand for pork products. Peri-urban pig production in Kampala however lacks digital innovation, productivity, and profitability, as well as the evident practice of poor animal health procedures. This ultimately impacts scalability, investment, and the livelihoods and wealth of multiple stakeholders in the pig industry. These challenges compromise the integrity of the pig supply chain in Uganda as disease contamination continually reduces food safety, while the unstructured industry allows for inequitable trade of pigs, which is progressively decreasing farmer profit margins.

AbacusBio in collaboration with The Roslin Institute, Vetline Services, and Makerere has developed a state-of-the-art decision support system. This system not only enables real-time monitoring to improve animal performance, genetic selection, and disease management but also links farmer cooperatives, veterinarian extension services, and ultimately the market transforming the industry. It aims to provide economic sustainability to pig farmers and ensure the wealth and well-being of farming families in Uganda.

“PigBoost” bridges the gap between pig farmers, veterinarians, and extension service providers. Utilising our cloud-based software Dtreeo this project digitalises Vetlines artificial insemination data pipeline.

Currently, the project is in phase one, and following launch in 2020 the platform will record disease events and animal performance, support implementation of a genetic improvement program, and monitor animal health and epidemiology.

The project increased its impact by partnering with Ugandan-based organisations, and received support from the Kampala City Council (animal production division), Ministry of Agriculture, and the National Animal Genetic Resource Centre, and the National Agricultural Advisory. Connecting stakeholders allows AbacusBio to increase the transparency of the value chain, ensuring the pig industry returns value to the farmer and appeals to investors in the future.

Outcomes of the project aim to align with the Department for International Development (DFID) key themes by improving productivity and increasing the value of production to smallholders by implementing an innovative data-driven food system to Uganda that can address food safety issues in the supply chain and deliver nutritious, healthy and safe food.