



# How Latium is Helping Farmers in Ghana Monitor Food Shipments and Reduce Spoilage

## The Challenge

Since 2012, Yams have become one of the primary food sources in West Africa, with optimal growing conditions and volumes of nutrient-rich land. These crops have become so popular that Ghana has since developed a strategy to turn their primary crop into the "food of the world"; ending the hunger crisis in Africa.

However, there was a problem: Ghana's farmers were using antiquated cold-storage methods that were leading to over 50% spoilage during transport of their product, stifling their hopes of ever solving Africa's food crisis.



## Abstract

In West Africa, Yams are one of the primary food sources to the local population.

Since 2012, Ghana has positioned its numerous Yam farms as the answer to hunger throughout Africa.

However, antiquated storage methods were leading to major spoilage problems that could seriously hinder Ghana's plans to end hunger in Africa.

Latium came up with a solution to monitor the storage conditions of the yams during transit to ensure no spoilage could occur.

*Keywords: Agriculture, Farming, Monitoring, GPS, IOT*



*Antiquated Cold Storage Methods were causing major spoilage in transporting West African farmer's yam crops, hindering any plans for economic growth.*

*That's when we came in.*

## The Solution

Thanks to his background in farming, our CEO Tony Pecorilli knew immediately what the problem was: the rapid change in temperature from the hot ground to the cold-storage trailers was causing major spoilage.

What these farmers needed were refrigerator units that would slowly reduce the ambient temperature of the product within, ensuring no temperature-related spoilage.

But there was more...



## The Solution - Continued

We knew that in order to set up a proper supply chain, ranchers & transport companies would need to prove that their shipments remained at optimal temperatures throughout the journey, with no disruptions to the core temperature along the way.

Using our GPS and in-vehicle monitoring, we devised a way to monitor the temperature of the yam shipments using simple sensory equipment.

If a rapid change in temperature was detected - a refrigerator unit stalled, the compartment were opened, etc. - our sensors would send alerts directly to the driver, the shipper, and the receiver.

Plus, with Latium's custom reporting tool, instant breakdowns of a shipments journey can be sent to key stakeholders.

## International Project

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