

MANUFACTURING: CASE STUDY

Use Case:

Eliminating utilities waste, predicting asset performance and identifying high yield operating regions.

Industry:
Manufacturing

Challenges:

- Under-performing Asset
- Reworkrate
- High cost

Solution:

- Predictive Model to identify asset that would go on to be faulty.
- Prescriptive model to identify areas of consumption.
- Computer vision model to improve QC inspection on products.

Results:

- Halved downtime within 3 month of deployment.
- 0% redo rate within 3 months (first time ever).
- Monthly cost saving of N6,000,000

CLIENT

Our client is a large food and beverage manufacturing company. They manufacture and supply food products across Nigeria.

The Challenge

The manufacturing sector, just like any other, faces serious challenges with global competition, local costs, cheap imports and productivity concerning local businesses within the sector.

Increased costs for raw materials are squeezing margins and unless offset. While making any decisions they have to keep in mind the effects on the environment and society, which restricts them in certain ways of manufacturing due to emissions and waste generation. Manufacturers now need to use sustainable engineering strategies to step further ahead of their competitors or it may lead to a decline in their brand reputation and cause harm to the environment.

To remain competitive whilst adhering to laws and regulations, our client wanted to find a way to optimise their manufacturing process as well as reduce costs. They were experiencing very high costs due to high utilities consumption and maintenance process, high internal and external scrap rates and long delays in the manufacturing process due to rework. In a process whereby energy is abstract, the main challenge was how to reduce such unforeseeable costs.

“The introduction of this new line of smart production system strategically positions us to continue as the industry leader in manufacturing, distributing healthy foods.”

“We were looking for a solution that could provide the reliability, coverage, and sensor data we needed and that was also easy to install and maintain. Cedar delivers all of these qualities. The usual is for us to allocate an estimate for our utilities costs. Over a 2 week period we managed to achieve 5% reduction in cost. In the past we have been able to achieve similar results, but we had absolutely no clue what we did to achieve the good result. This time around we have a fairly good idea of what we did to achieve the result, it was no guess work.”



About Us

We are an IoT company specializing in the development of IoT solutions for Industry 4.0— with a specific focus on heavy industries.

We offer consultancy and an IoT - enabled process parameter optimization solution that actively enhances business process, enabling businesses avoid downtime and failure by leveraging predictive maintenance. We help businesses plan for proper inventory and logistics by monitoring production schedule and identifying defects.

Our solutions are proven to provide real value for heavy industries, and industry-leading companies rely on us to make the most out of their systems.

