

## Global FMCG conglomerate achieves strong sustainability results with Digital Factory and Digital Supply Chain Initiative in partnership with Acuvate



### About the client:

The client is a British multinational consumer goods company headquartered in London, England. The company's products include food, condiments, ice cream, wellbeing vitamins, minerals and supplements, tea, coffee, breakfast cereal, cleaning agents, water and air purifiers, pet food, toothpaste, beauty products, and personal care. With multiple brands and thousands of geographically distributed employees, maintaining a single thread for all employee experience matters was a complex task.



### The sustainability agenda:

Like many forward-looking CPG organizations around the world, our client had a strong sustainability agenda. The company wanted to achieve several of its sustainability KRAs including zero-waste by completely digitizing its supply chain and manufacturing.

Our client was looking for a tech stack partner who could bring in expertise in both sustainability and digital factory and supply chain to help the organization meet its new-age aspirations.

## Goals:

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### Optimizing throughput and utilization

Across the company's manufacturing units and supply chain, the machinery throughput and utilization were not maximized. Both throughput and utilization had to be optimized in line with the organization's sustainability aspirations.

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### Planned and ideal production time

The company wanted to meet ideal production time in its factories. This would enhance industrial-resource productivity and help the company move more rapidly on the path to sustainability.

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### Monitoring and improving OEE

Optimal Overall Equipment Effectiveness (OEE) is a key element of an organization's zero waste agenda. Our client wanted to monitor the OEE at its manufacturing units and ensure they were operating at optimal metrics.

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### Increasing output reliability

Manufacturing outcomes including raw materials, packaging materials going to waste keep organizations from reaching their net zero goals. So, it was critical that our client ensured its manufacturing outputs are fit for consumption, every single time.

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### HR labor productivity monitoring

Employee efficiency is a critical element of the zero-waste agenda. Monitoring productivity and ensuring that all resources are optimally utilized was one of the important goals of the project.

## Solution:

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Acuvate deployed its state-of-the-art end-to-end data solutions with reports built in power BI. The system was a self-serve data model. Various stakeholders could get an overview and in-depth analysis of OEE loss, OEE loss classification, HR labour productivity and utilization, output reliability and much more.

Acuvate also leveraged IoT sensors to automate end-to-end data capturing process, with no human intervention. This further reduced delays and room for error.

## Solution highlights:

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- The solution is built on the Microsoft Modern Business Intelligence Suite, with reporting in PowerBI
- The customer is able to understand the OEE loss type in near real time, and can remediate by improving OEE of assembly lines
- The client is also able to view output reliability on the app in near real time, and remediate as required
- HR KPIs have helped optimize labour productivity, efficiency, and utilization.
- ML Models to predict material wastage.

## Technology stack:

- Power BI
- Azure SQL
- Azure Data Factory
- Azure Databricks
- Azure Analysis services,
- Azure IOT Hub

## Results:

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**20% increase**  
in OEE for several  
manufacturing units

**Improved**  
process reliability  
and robustness,  
directly leading to  
dollar saving in OPEX

**8%**  
**enhancement**  
in output reliability

**Significant**  
**increase** in direct  
and indirect labor  
productivity

**~4000-person**  
**hours** per month  
saving with  
automated reporting

A giant leap towards  
meeting the company's  
overall **zero waste**  
and sustainability  
agenda, in keeping with  
the organization's lofty  
goals

## The Acuvate Advantage:

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Acuvate is a global player in next-generation digital services and consulting. We enable clients across the globe to steer their digital transformation strategy with AI. We are a global service provider for business-specific solutions. With over 14 years of experience in digital solutions, we believe in employing the state-of-the-art technologies to develop mission critical business solutions. Leveraging Microsoft technologies including BI, AI, SharePoint, .Net, etc to provide effective enterprise solutions is our forte.

We help our enterprises in transforming their conventional processes to match the next generation technological trend. With a strong commitment to excel in the business solutions, we support our business partners to spur their growth rate and ROI by enhanced productivity and efficiency through our business solutions.

