Case Study

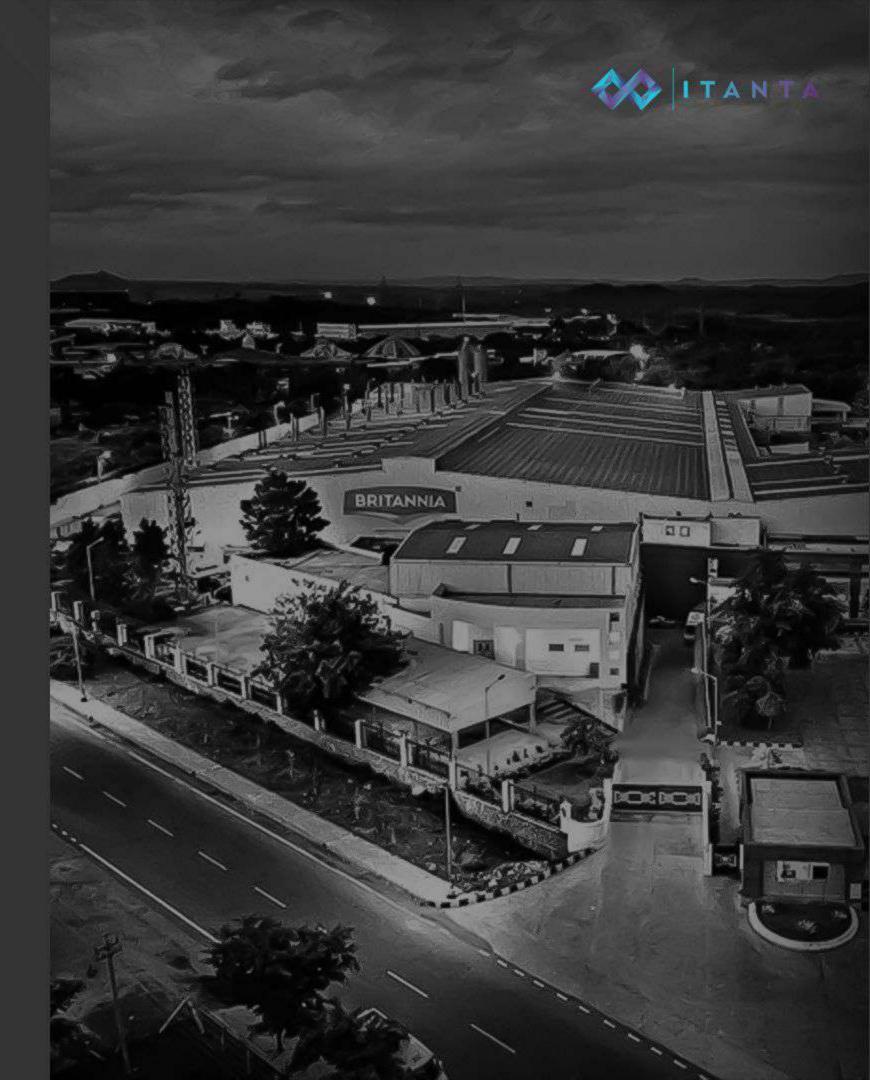


Britannia Smart Factory Optimization

Analytics, Reporting & Dashboarding

INTRODUCTION

Project Name Britannia Smart Factory Optimization Improve operational efficiency with real-time monitoring & automation Objective **Duration** 12 Months Good Day, Tiger, NutriChoice, Milk Bikis, **Key Brands** Marie Gold Ranjangaon MIDC factory – one of the largest plants in India **Key Fact**





CUSTOMER REQUIREMENTS



Daily reports for Mixing, Molder, Baking, Oven & CMS (6 production lines)



MIHS (Minor Ingredient Handling System) deviation tracking



Packing machine performance tracking



SMS alerts and mobile app integration



Dashboard with OEE (Overall Equipment Effectiveness) calculations



Ensuring seamless production flow with minimal manual intervention is a key focus



SOLUTION OVERVIEW



Automated Data Collection



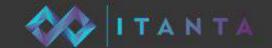
No-Code Dashboards on Live Data



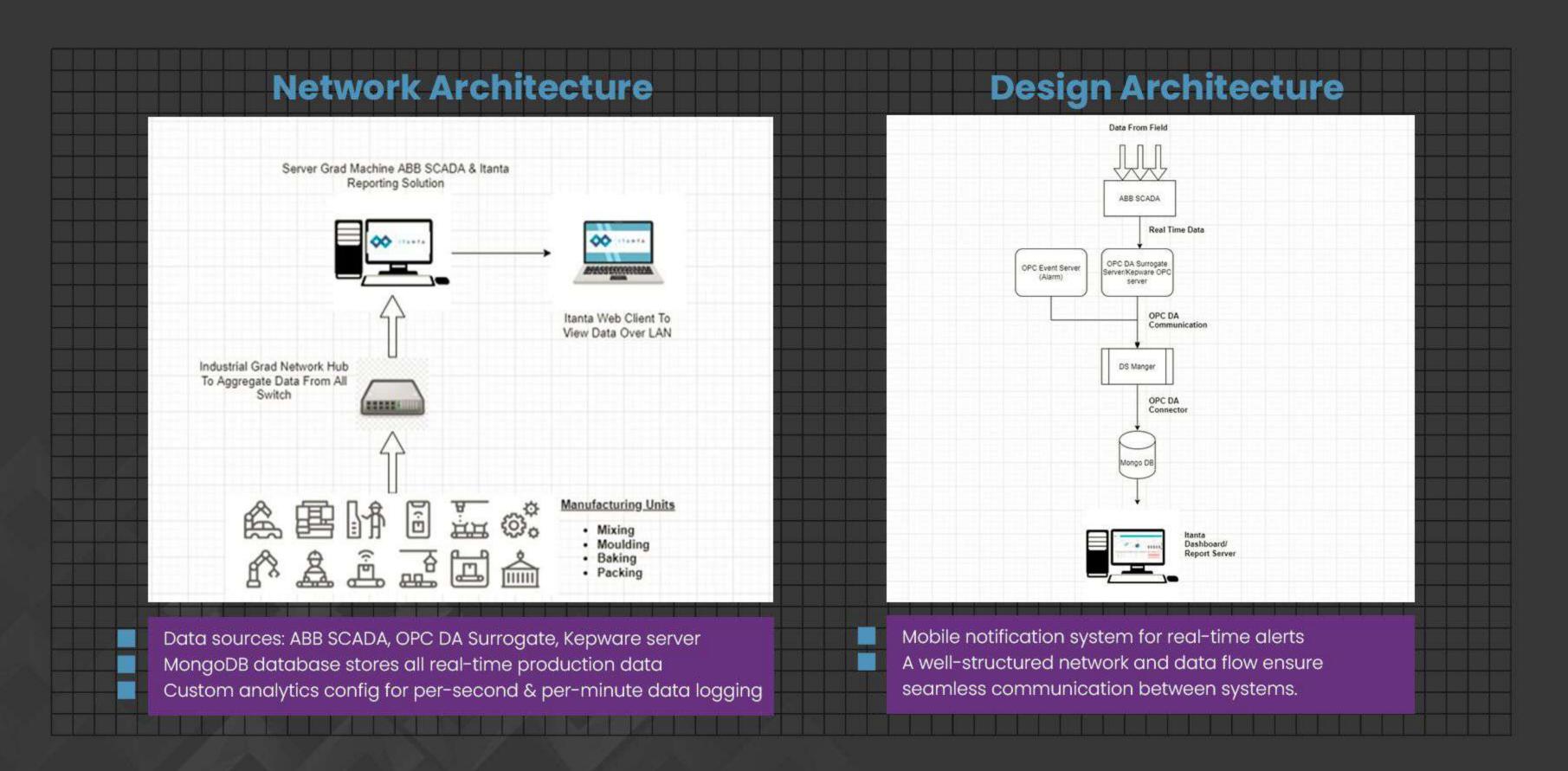
Manual Data Entry Elimination



Itanta Reporting & Mobile App



ARCHITECTURE





DASHBOARD VISUALISATION



Overview Dashboard

Line efficiency %, total production (Tons), OEE %, downtime (mins), wastage (kg)



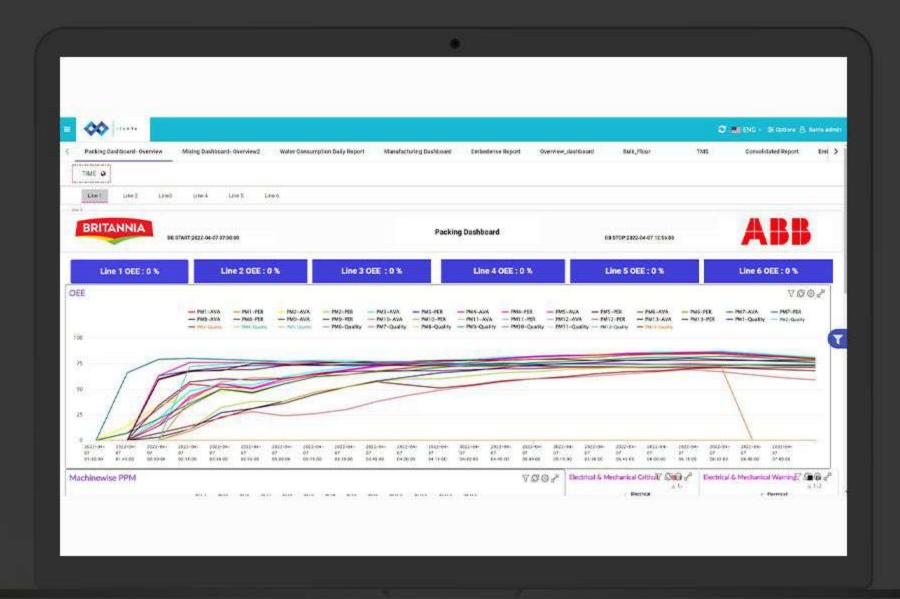
Consolidated Reports

Baking time analysis, flour-cream ratio, downtime statistics



Manufacturing Dashboard

Molder/cutter speed, baking time, roller & conveyor speed (RPM)





ALERTS & REPORTS



SMS/e-mail Alerts

For MIHS, Packing, Molding, Baking, etc.



Deviation Calculations

Using formula: Deviation = Set - Actual



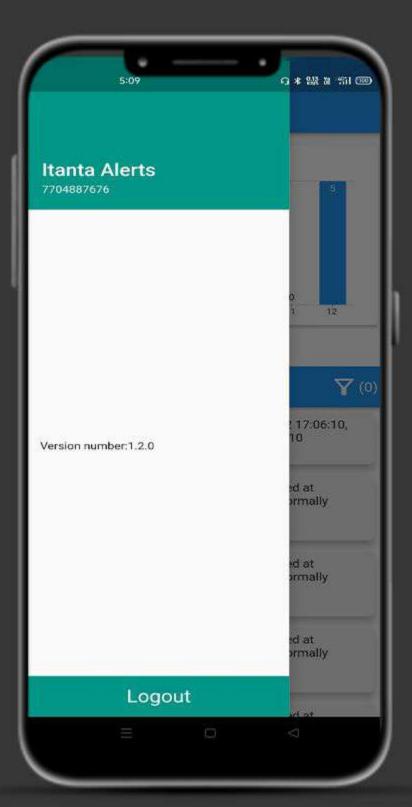
Package Machine Tracking

Start time, end time, and downtime analysis



Timely Alerts

Ensure quick corrective actions, minimizing production losses







IMPACT & BENEFITS

The transition to smart factory solutions has significantly optimized productivity.



Automated data collection, reducing manual effort



Improved tracking of ingredient usage & deviations



Real-time alerts increased response efficiency



Enhanced decision-making with OEE & production insights



Better process control through mobile app integration



CHALLENGES & RESOLUTIONS

Overcoming these challenges required a combination of technology, strategic planning, and training for the workforce.

Challenge	Resolution
Manual data logging was inefficient and prone to errors	Automated SCADA-based reporting with cloud storage
No real-time alerts or deviation tracking	SMS & mobile notifications for proactive monitoring
Lack of visibility into packing & baking inefficiencies	Real-time dashboards with efficiency metrics

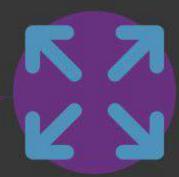


NEXT STEPS

After a successful implementation of Itanta Smart Factory System



Al-driven analytics & predictive maintenance



Expansion to other Britannia production facilities



The journey towards full automation continues, with future enhancements in Al-driven quality control and predictive maintenance





Thank You!