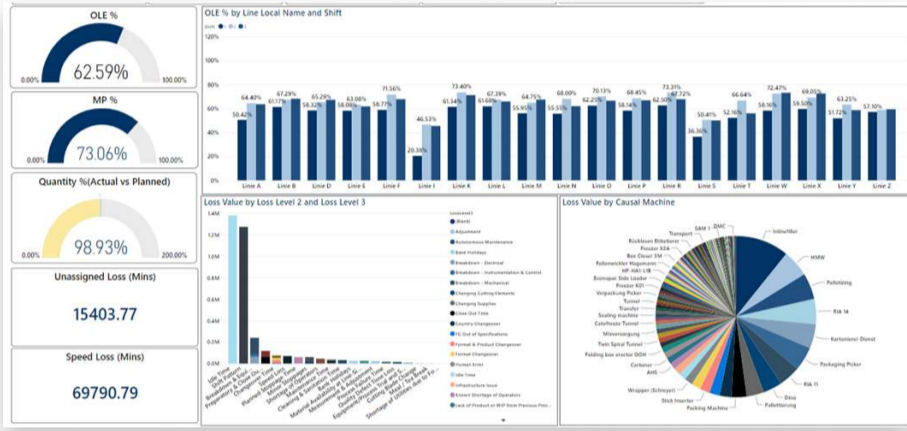


# Acuvate's Smart Factory Solution

Acuvate has been working with CPG and Manufacturing companies in including Internet of Things (IoT) and edge computing, Digital Twin, Cloud computing and Analytics, AI, and Machine learning into their production facilities and throughout their operations. We create value by combining data from Production operations with operational data from ERP, Supply chain, Customer service and other enterprise systems to create new levels of visibility and insight from previously siloed information.

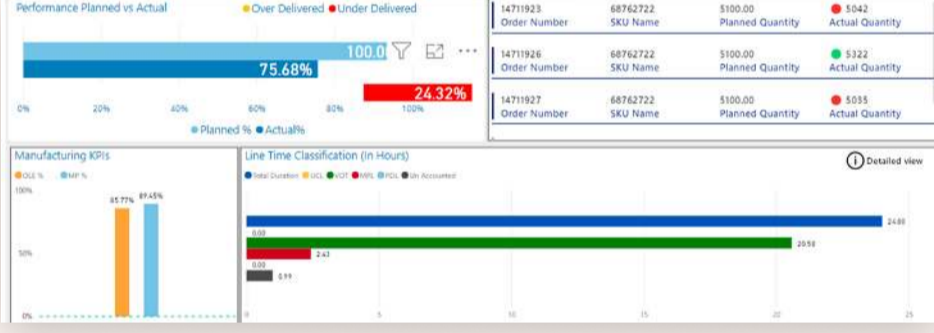


With advanced analytics on the big data generated by the embedded sensors and the interconnected machinery we have analysed historical trends, identify patterns to make better decisions. We work on building a secure and scalable network architecture with IT-OT integration.



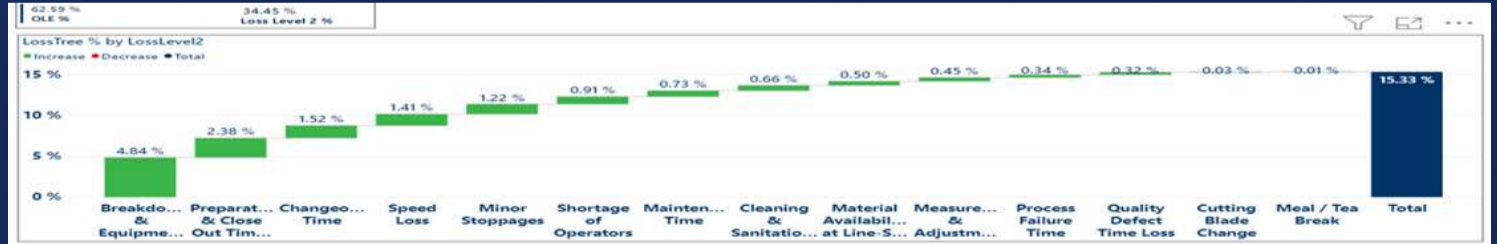
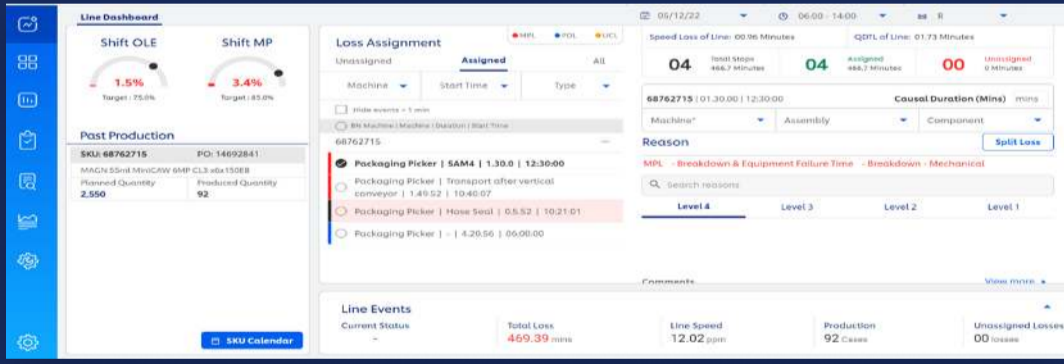
In organisations where processes differ in varying degrees from plant to plant, we have experience bring in data from various manufacturing plants into a data lake/Data warehouse which provides the right information to the right people with right context. For a large CPG company, we were able to reduce the raw material and packaging material wastage by correlating data of the SKUs manufactured, recipes etc., across the plants.

A large Ice cream factory had an overall efficiency (OEE) of around 45%. From the diagnostic analytics done by the reports built by Acuvate, it was discovered, that the OEE goes down during change over. The factory did a deeper analysis to identify a design flaw in the Clean-in place (CIP) pipes. They went through a Kaizen improvement process and redesigned the CIP, which improved the OEE by 20% to 65% and they are working further to achieve OEE of 75%.



Acuvate's solution helps in tracking planned performance vs. actual and alerts if there are any issues in real time. Manufacturing plants would be able to understand the underlying causes of blockers and take corrective actions. The solution helps with predictive maintenance using anomalies detected to predict the failure of assets and schedule maintenance only if needed.

Solution provides the ability to analyse the complex relationships between hundreds of parameters to synthesize dozens of patterns to identify anomalies. All done in real time. This also reduces the downtime needed by preventive maintenance improving OEE.



AI-powered manufacturing solutions can drive up to 30% yield improvements, 15% waste reduction, and 5-10 % reduction in operating costs. Acuvate possess the essential combination of IoT, Cloud, Data and AI expertise with years of experience in CPG and Manufacturing industry to build smart factory and Digital Twin solutions. Wherever you are on your digital journey, Acuvate can partner with you to deliver AI powered insights and consultative services for more resilient business operations.

