

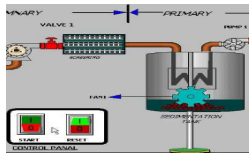
A

Overall Equipment Effectiveness | Overview



Lumada Manufacturing Insights is all about real-time collection, processing, and visualization of all relevant data of a manufacturing facility for the exchange of information between man, machine, and production processes on the shop floor.

Real-time process information



1

Real-time- OEE dashboard with downtime and MTBF

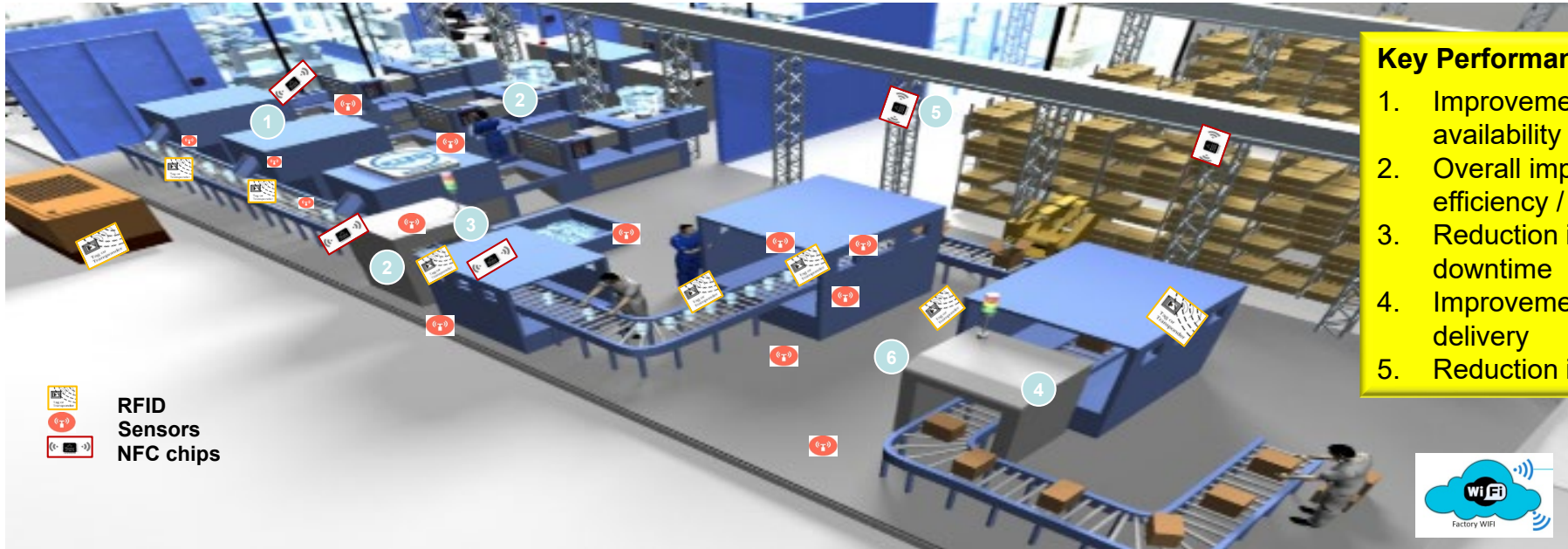


2

Real-time rejections and defects



3



RFID Sensors
NFC chips



Key Performance Indicators

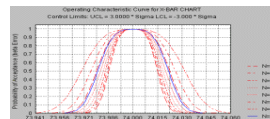
1. Improvement in machine availability
2. Overall improvement in efficiency / productivity
3. Reduction in planned downtime
4. Improvement in on-time delivery
5. Reduction in scrap

Real-time inventory information



4

Product and process capability analysis



5

B Use Case | Tire Manufacturing

Operations excellence through digital interventions at a leading off-road tire manufacturer with revenue of ~USD \$1 billion.

Context/Challenge

- Client has been through the Lean journey and is keen to focus on next level of operational optimization
- Focus was on:
 - Capturing yield losses
 - Releasing capacity
 - Quality improvement

Solution

- Seifert Technologies implemented multiple themes of improvement which were prioritized based on impact, cost & effort such as:
 - Deployment of productivity monitoring solution for track manufacturing including online demand pulling system
 - Curing press utilization, weight monitoring and control room setup for the air tires leveraging traceability and connected factory
- Connected factory solution



Foreseeable Benefits:

- Reduction in the weight variation of raw material of air tires
- Enhanced bladder life cycle of air tires
- Increased curing process throughput
- Overall payback of ~2 years for the proposed digital solutions

C Customer Impact | OEE Solution

With manufacturing solutions from Seifert Technologies, Inc, you can quickly improve your shop-floor performance with a composable, scalable solution that is easy and fast to deploy. Start gaining benefits within weeks by reducing unplanned downtime, improving on-time delivery through cycle-time management, and reducing defect rates with data-drive pareto analysis. Further benefit from real-time monitoring of equipment to detect anomalies before they disrupt production.

Overview of Effort

- *Customer engagement process included an assessment workshop & development of implementation plan*
- *Return on Investment allowed customers to take a phased adoption approach while funding each phase based on savings*
- *Customer was able to mitigate the complexity (turn-key solution)*
- *Minor customization required*

New Resource Requirement

- *Limited customer resources were required during implementation*
- *No new personnel required to operate or manage the system. Machine operators needed small amount of training (~1 hour)*
- *No changes to existing business systems. Seifert has an integrate-first philosophy*

Long Term Care and Feeding of the Project

- *All changes to system are included in Seifert's subscription model. No effort needed to make changes*
- *Changes are covered under the subscription model so no additional charge to change views*
- *Scale-up can also be handled under the subscription model, allowing customer to add machines on a \$ per month basis*