# MANUAL CLEANING INSIGHTS

Sandra Saul







# **KEYS TO FOOD PLANT'S SUCCESS**

#### Food manufacturers need:

- Consistent, effective cleaning to help ensure food safety and quality
- A program built to drive cost savings and consistency in hygiene standards



**Efficiency** 

Water and resource consumption

**Food Safety** & Quality

Microbiological results



# MANUAL CLEANING CHALLENGES

- ! Non-standardized processes
- Supervision resource constraints
- (!) Continuous employee turnover
- Time limitations





## **SETUP**

#### **Critical parameters**



### Time

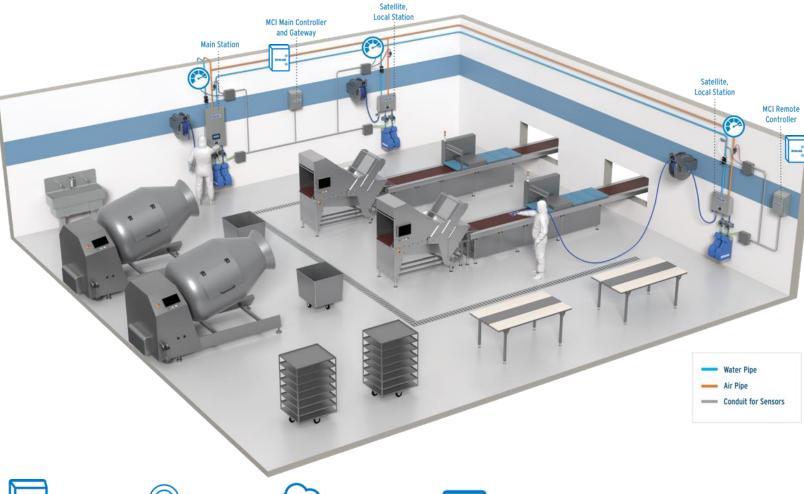


Water



Chemistry





**How MCI works** 



Sensors





Cellular Network



Microsoft **Azure Cloud** 



**MCI Online Dashboard** 

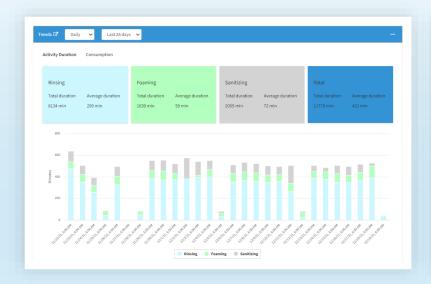
Ecolab Proprietary





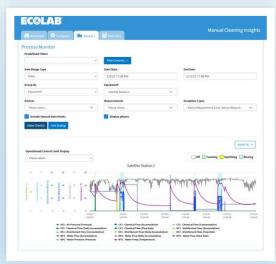
# 24/7 VISIBILITY INTO MANUAL C&D PROCESSES

#### **MCI** Dashboard



- Activity duration, resource usage and consumption
- Exception log and recommendations
- Trend analysis

#### **Process Monitor**



- Visualize each parameter within C&D activities
- Details of exceptions for root cause analysis

#### **Daily Insights Report**



- Location and severity of exceptions
- Automatically generated every 24 hours

# **Email Exception Notifications**



Real-time alerts help manage issues as they arise



# BETTER CLEANING INSIGHTS MEAN BETTER CLEANING OUTCOMES

#### MCI helps:

- ✓ Verify cleaning and disinfection activities
- ✓ Save money by reducing re-cleaning to help promote on-time production starts
- ✓ Improve efficiency by identifying suboptimal resource usage
- Save time by standardizing and verifying procedures
- Ensure product consistency and quality
- ✓ Improve sustainability profile





## MAKE SURE IT'S CLEAN FROM START TO FINISH



Achieve consistent, effective cleaning



Ensure food safety and quality



Optimize cost savings while minimizing waste



Visit our booth to follow-up on our approach to Manual Cleaning Insights. Ecolab 31.2.





