



# Grain & Feed Industry Conference

**What's New in Technology?**

*January 10 – 12, 2023*



## Our Mission

- Provide the best support available in the market
- Invest in technology, people, quality, and processes
- Provide world class solutions to our customers worldwide, from process specific controls to complete turnkey solutions



Receiving



Routing



Grinding



Batching



Hand Add



Blending



Pelleting & Extrusion



Load Out

*Repete*



Lot Tracking



Data Integration



Recoverability

## What is new in technology - Feed Industry

- Data Availability
- Ethernet
- Process improvements
- Obsolescence



# Data Availability

- **Data Published from Process Control System (PCS)**
  - Available in many formats
  - Available to be consumed by business resource systems
- **Reporting**
  - Reports available online to Management
  - Reporting format custom to customer applications
- **Notifications**
  - Exceptions within the Control System recorded and email notifications sent
  - Equipment down time record keeping for analysis
- **Scheduling**
  - Planning schedule to help with supply chain and nutrition demands
  - Inventory projections within the PCS for schedule planning



# Ethernet & Process Improvements

- **CSD – Critical Safety Devices**
  - Ethernet connected safety devices
  - Ethernet nodes that can handle up to 16 CSD sensors
- **Variable Frequency Drives**
  - Ethernet controlled VFDs
  - Instant monitoring of Equipment Control
    - Changes in load and control
- **Intelligent MCCs**
- **Moisture sensors**
  - Commonly used in dryers, but has applications in Cooler management
- **Roll Delineator control**
- **24vDC IO**



# Mitigation of Obscelesence

- **Continuous Improvement Program**
  - Periodic update to Core Software
- **Operating System**
  - Ability to move to new OS with out the downtime of replacement
  - Ability to replace 32 bit hardware
- **PLC processor and hardware**
- **Multiple plants working on the same version**
  - New software every year
  - Enterprise customers with 40 plants all on the same version of software with same feature set



# Human Resources

- What is the hiring market like in your local area?
  - Can you hire folks that know how to hold a wrnch or a shovel?
  - More technically inclined and less mechanically inclined
- What is a process or area that can be helped by technology?