FIND YOURS.

Connecting Supply Chain Data Sources for Measurable Productivity Gains

Presented by:
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Presenters

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Objectives

1. Identify processes that could be improved with existing data
2. Understand the different types of data found in the supply chain
3. Design business systems that are adaptable to change
Focus on the Interface

• Anyone been part of a failed automation project?
  • Do you know why you failed?

• The two eyes….not those eyes
  • Integration and Interfaces
Interface (noun)

• in·ter·face | \ ˈin-tər-ˌfās \  

Definition of interface  
(Entry 1 of 2)

• 1: a surface forming a common boundary of two bodies, spaces, or phases an oil-water interface  
• 2a: the place at which independent and often unrelated systems meet and act on or communicate with each other the man-machine interface  
• 2b: the means by which interaction or communication is achieved at an interface  

Source: https://www.merriam-webster.com/dictionary/interface
Types of Data found in Supply Chain

• Customer Data
  • Order History, Customer Profile

• Inventory Data
  • Location, Reorder Points

• Transaction Data
  • License Plate, Batch Info

• Controls Data
  • Flow

• Device Data
  • Cycles, Speed, Runtime

• Monitored Data
  • Temperature, Amp Draw, Vibration
Don’t Drowned in Data…

• Don’t store anything and everything
• Select only **ACTIONABLE** Data
• Just having data isn't the end goal; you most likely have more data than you probably realize.
Architecture – Where is Data Needed?

- Direct
- Managed
- Cloud Repository
## Where Does Data Originate?

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Control</th>
<th>User</th>
<th>IIot</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Barcode</td>
<td>• Cycles</td>
<td>• Productivity</td>
<td>• Voltage</td>
</tr>
<tr>
<td>• Store</td>
<td>• Runtime</td>
<td>• Hours</td>
<td>• Vibration</td>
</tr>
<tr>
<td>• Lane</td>
<td>• Speed</td>
<td>• Data Input</td>
<td>• Sound Level</td>
</tr>
</tbody>
</table>
Interface Magic – Managed

- Conveyor
- Carousel
- Sortation
- AS/RS

Control System

Interface

Warehouse Execution System (WES)

Warehouse Management System (WMS)

Enterprise Resource Planning (ERP)
Benefits of Connecting Data Sources

• Reduces dwell time between redundant task
• Eliminates Manual Data Entry thus Reducing Errors
• Optimizes Business Processes and Eliminates manual operations
• Leverage Existing Infrastructure
• Allows you to Integrate or Replace Legacy Systems
• Promotes better decisions with Integrated Business Analytics
• Allows your Organization to Build a robust business system that is adaptable to changing conditions
• Eliminates non-value FTE’s on the Floor
• Optimize Travel or Pick Path
Key Takeaways

• Determine what data is important to each unique process

• Don’t collect data like baseball cards.

• The end goal should always be efficiency and improved service
For more information

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