



IPRO 306

TECHNOLOGY AND BUSINESS INNOVATIONS TO IMPROVE OPERATIONS

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Agenda



Introduction

Introduction & Team Structure

Supplier Data Optimization Review • Supplier Data Optimization Review

Warehouse Management Review Warehouse Management Review

Conclusion

Conclusion





Introduction

3

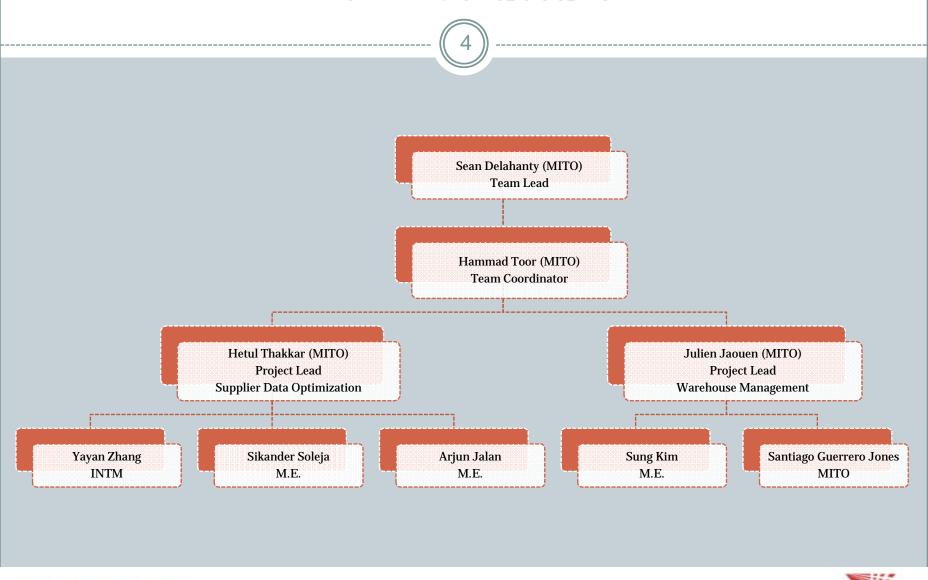
Sloan Valve

- Industry Leader and Innovator
- Green Initiatives, Commitment to Sustainability
- o www.SloanValve.com
- IIT Students
 - Diverse Group of 9 INTM & ME students
- IPRO 306
 - Creating Process Efficiencies Through the Use of Technology
 - Optimization of Supplier Data
 - Warehouse Improvements via Warehouse Management System (WMS)





Team Structure







Supplier Data Optimization Review



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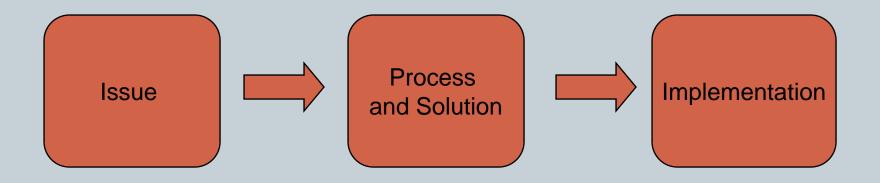
Conclusion





Supplier Data Optimization — Global Sourcing









Issues

7

- 109,000 Suspect Data Records Currently in SAP
- Data Records Are Obsolete, Duplicate or Have Incomplete Information
- Currently No Process Exists to Manage and Accurately Maintain Data





To-Be Process Poll suppliers **Download Data** Validate Cleanse (30,000)(95 vendors (109,000)Repeat correlates to 90% spend) Upload into SAP Consolidate Format data Info Records **Material Master** Repeat based on **Check random Vendor Master** sampling quarterly/annually





Solutions

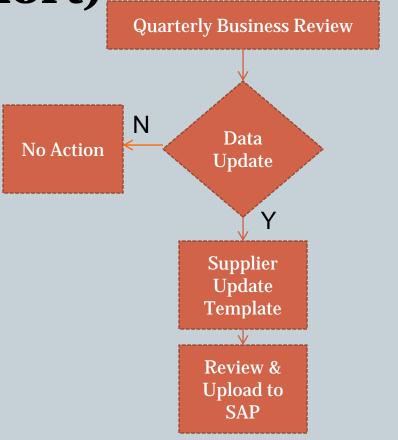


Tactical Solution (Short)

Mass Emailing
Quarterly Review

Tool Mail Merge

Mail Group



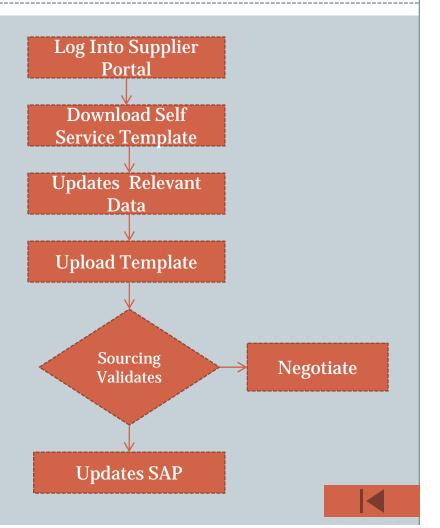




Solutions (cont'd)

Strategic Solution (Long)

Supplier Web Portal







Implementation

11

- Supplier Portal Development / Creation
 - Web Development Process
- Data Record Management Process
- Refine Process





Warehouse Management Review

12

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Supply Chain Optimization – Current Issues



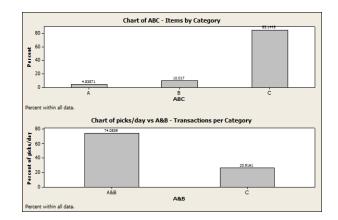
- Increased operational complexity
- No formal procedures on how to store items
 - Manual processes
 - Wrong people making put-away decisions
- Warehouse organization
 - Hard to identify products in storage locations
 - Bins not clearly defined
 - Inventory is not stored by volume of transactions
- Shipping errors on outbound and internal orders

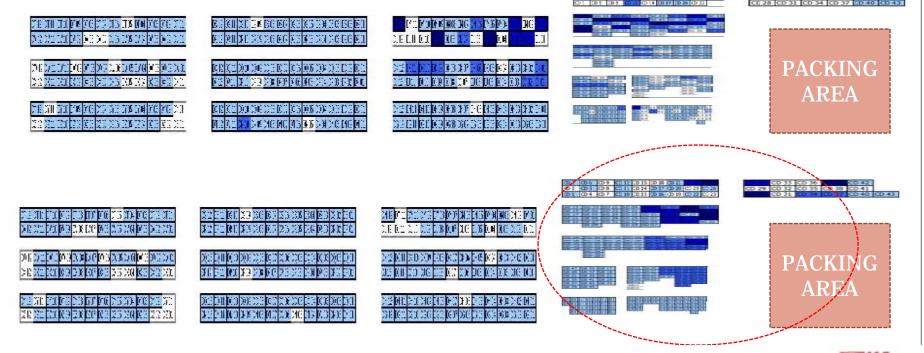




Accomplishments

New ABC —— Identify fast movers





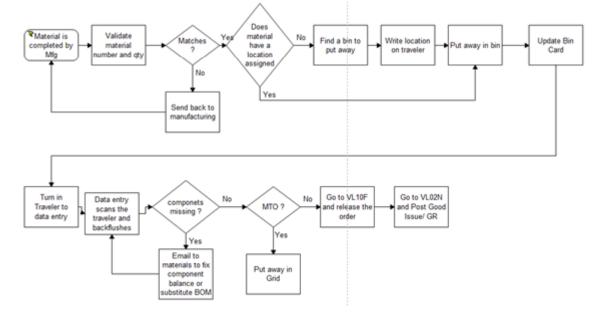




Accomplishments

New and Improved PROCEDURES

Current Process



Future Process



Scarthe. Scan bin and Scan to Logistics Mfg Completes Validate Matches traveler and Put Away ticket scan ticket and cooridator puts Materials material system selects is produced scan material # product away mber and qty Send back to manufacturing





Accomplishments





Warehouse ORGANIZATION







Additional Accomplishments

Definition and quantification of BIN LOCATIONS

•BULK 294 Bins

•PALLET RACK 719 Bins

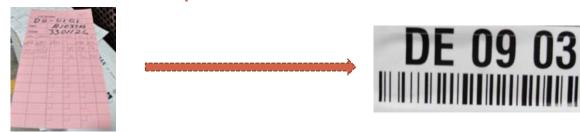
•FLOW RACK 172 Bins

•GRAVITY RACKS 136 Bins

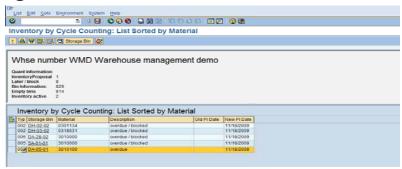




Identification of products and bins



DEMO development, testing and instruction material

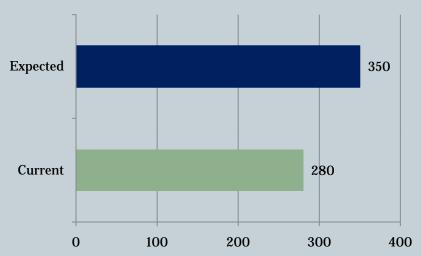






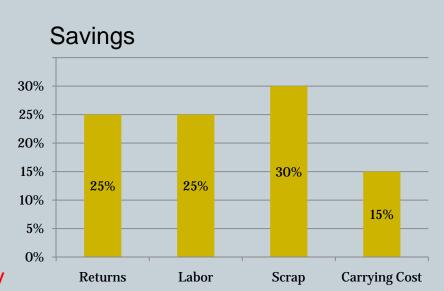
Expected Implementation Results







- Better Information Accuracy and Visibility
- •More Efficiently Managed Workforce







Recommendations



- Radio Frequency technology is required to maintain accuracy level and achieve expected results
- Move the demo site to a fully configured warehouse management module in the testing system
- A comprehensive implementation project plan needs to be developed
- Further enhancement to Unit and Integration test scripts





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21

IPRO 306 Takeaways

Common, Real World Issues

Collaboration, Working "With", Not "For"

Impact! Both Short and Long Term





Questions?

(22)

Thank You for Your Time and Attention! Questions?





