



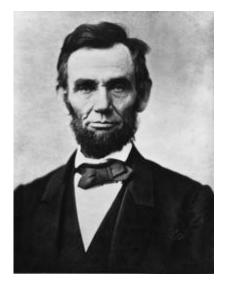
The Future...



The Future...

"The best way to predict your future is to create it"

Abraham Lincoln







Agenda

- Distribution Management
- Near Term Value Opportunities
- Predictions For The Future





One Definition of Distribution Management

Core Elements:

- Warehouse Management
 - Inventory Management
 - Order Management
- Yard Management
- Appointment Scheduling
- Transportation
 - Rating, Routing, Load Building, Execution
- Labor Management
- Slotting Optimization





Improve Vendor Collaboration

- Electronic advance ship notices (ASNs), including matching product labeling
- In-line vendor performance data capture and report cards
- Dynamic quality inspection based on vendor performance
- Improve labor planning and dock planning
- Significantly reduce receiving efforts (time, labor, space)
- Allocate in-transit inventory to increase turns





Dynamic Inventory Disposition in the DC

- View each inventory handling event as an opportunity to match the inventory to the most optimal and "forward" need possible
 - Order fulfillment
 - Cross-dock or bulk need for multiple orders
 - Task swapping
 - Put away to a forward location for immediate processing
 - Quality inspection / sampling
 - Optimal reserve storage





Intelligent Tasks & Auto-Task Management in the DC

- Configuration-driven assembly of inventory movements into better, multi-purpose tasks
- One location visit to retrieve inventory for multiple needs
- Pick path optimization based on order pool and objectives
- Automatic task pool management
 - Task release
 - Task creation cycle counting, top-off replenishments, movements
 - Priority evaluation and priority adjustments





Leverage Labor Management & Slotting Optimization

- Set performance expectations for your associates
- Capture and monitor performance data
- Build a base and a culture around labor management
- Set the stage for more advanced options such as pay-forperformance, labor planning, and labor scheduling
- Utilize purpose-built inventory slotting algorithms to ensure that products are optimally placed in the DC
- Leverage a WMS tasking architecture to execute the product re-slotting movements





Ship / Fulfill from Anywhere... Omni-Channel

- Requires three key things:
 - Accurate, low-level inventory visibility in a single application
 - Including inventory at vendors, in-transit, in warehouses, in hubs, in partner locations, and in stores
 - Order management / order routing
 - Order fulfillment even in the store including prioritization,
 mobile workflows, packaging instructions, and transportation
- The key is doing the above efficiently & profitably





The "Return of Returns"

- The rising importance of efficient reverse logistics processing
- With growing direct-to-consumer shipping, comes increased returns
- Many opportunities:
 - Returns documentation sent with the order
 - Initiation/injection options for the return
 - Dynamic routing of the returns package
 - Returns disposition processing
 - Rapid asset recovery





Advanced Order Pool Modeling

- What-if scenarios for order processing in the DC
 - Including comparison of alternatives and execution
- Orders to include/exclude
- Order fulfillment strategy alternatives
- Impact of key variables such as equipment, personnel,
 groupings, pick paths, pick density, etc





Transportation Industry Integration – Next Level

- Numerous opportunities given widespread adoption of incab technologies
- Automated tender and appointment scheduling/requests
- Streamlined yard check-in/out
- In-route arrival and/or capacity updates (to DC)
- In-route readiness and/or freight updates (from DC)
- Delivery estimates and delivery confirmation
- Increased back haul options





Next-Gen Business Intelligence for the Supply Chain

- Data warehousing with general historical analysis
- Predictive features
- Total cost to serve
- Enterprise social media
- Continued advancement and adoption:
 - Alerting
 - Closed-loop analytics
 - Self-service reporting
 - Reporting on mobile devices





Software Technology

- Mobile for execution, visibility, & reporting
 - Including tablets & purpose-built for touch
- Cloud = easy to provision and easy to access
- Tools beyond just the core software or hardware
 - More tools for more parties, i.e. customers, implementers, partners, non-IT
 - Self-service, simple to install, support, extend, & upgrade
- Standards / table stakes
 - Programming languages, extensibility, user interface, and deployment alternatives
- Shared Elements / Platforms
 - More mature and efficient, with less integration cost/risk





More Automation in the DC!

- Robotics
- Unit sortation the continued rise of direct-toconsumer / on-line order fulfillment
- Data capture options & multi-modal devices
 - Imaging, voice, RFID, etc
- All of this will drive the need for even more open software solutions and integration options

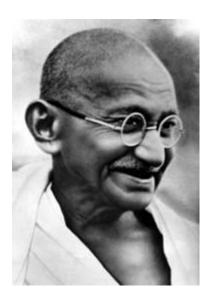




The Future...

"The future depends on what you do today."

Mahatma Gandhi



HAVE A GREAT DAY – TODAY! Thank You







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