

New Software Strategies for Omnichannel Order Fulfillment

Presented by:

**Greg Cronin &
Nyle Morris**

Sponsored by:

 Intelligrated®



© 2014 MHI®
Copyright claimed as to audiovisual works of seminar sessions and
sound recordings of seminar sessions. All rights reserved.



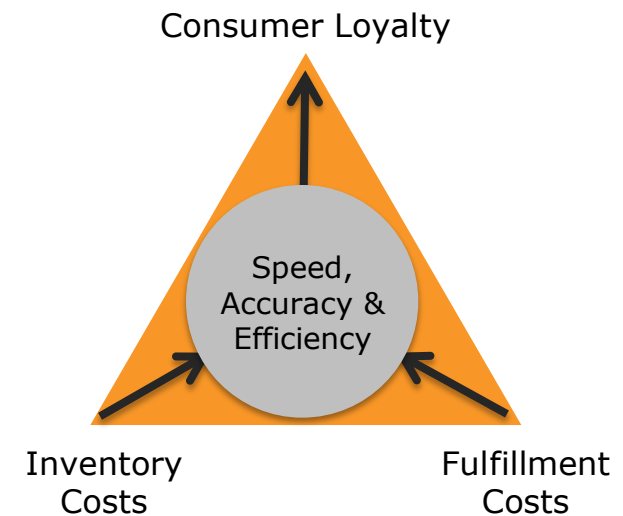
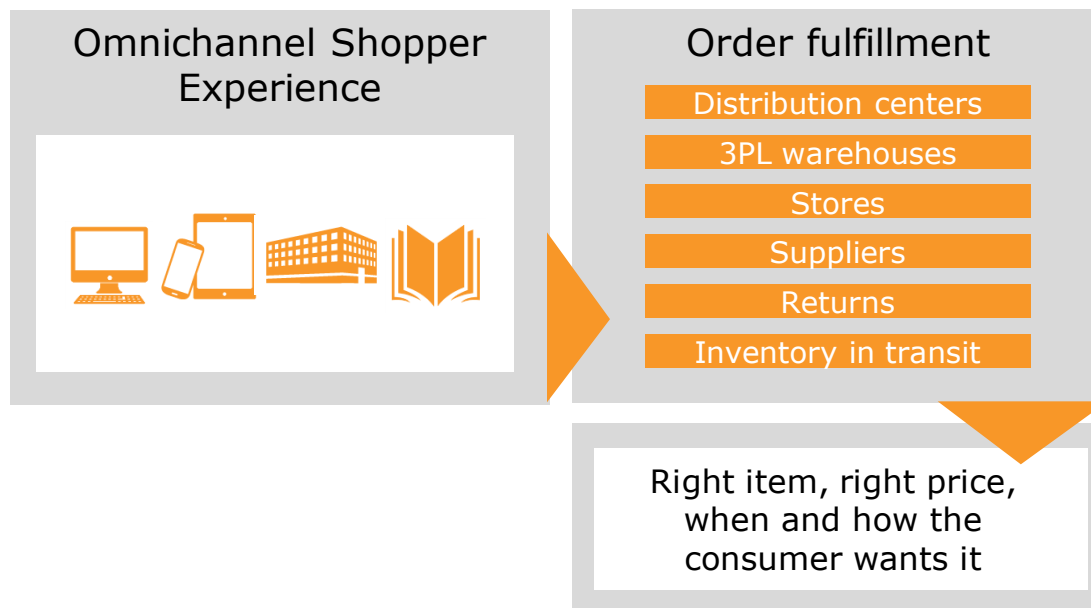
Abstract

The demands of today's omnichannel retailers require fulfillment operations to **ship orders faster and more efficiently** than ever before. This seminar will discuss how **intelligent software** driven by specific business requirements can enable fulfillment systems to **adapt to real-time process, equipment, labor and inventory** information and make **decisions at the speed of automation**.

Key takeaways: what to look for when evaluating technologies to enable omnichannel fulfillment

State of the industry: omnichannel

- Requires intelligent fulfillment
 - Service levels drive dynamic order wells
 - Inventory leverage requires flexible fulfillment
 - Labor efficiency requires adaptive and directed work flows



State of the industry: labor

- Labor: requires intelligent directed workflows
 - Qualified workers scarce and more expensive
 - Training and keeping them is a challenge
 - 25% of supervisors are 55+



State of the industry: automation

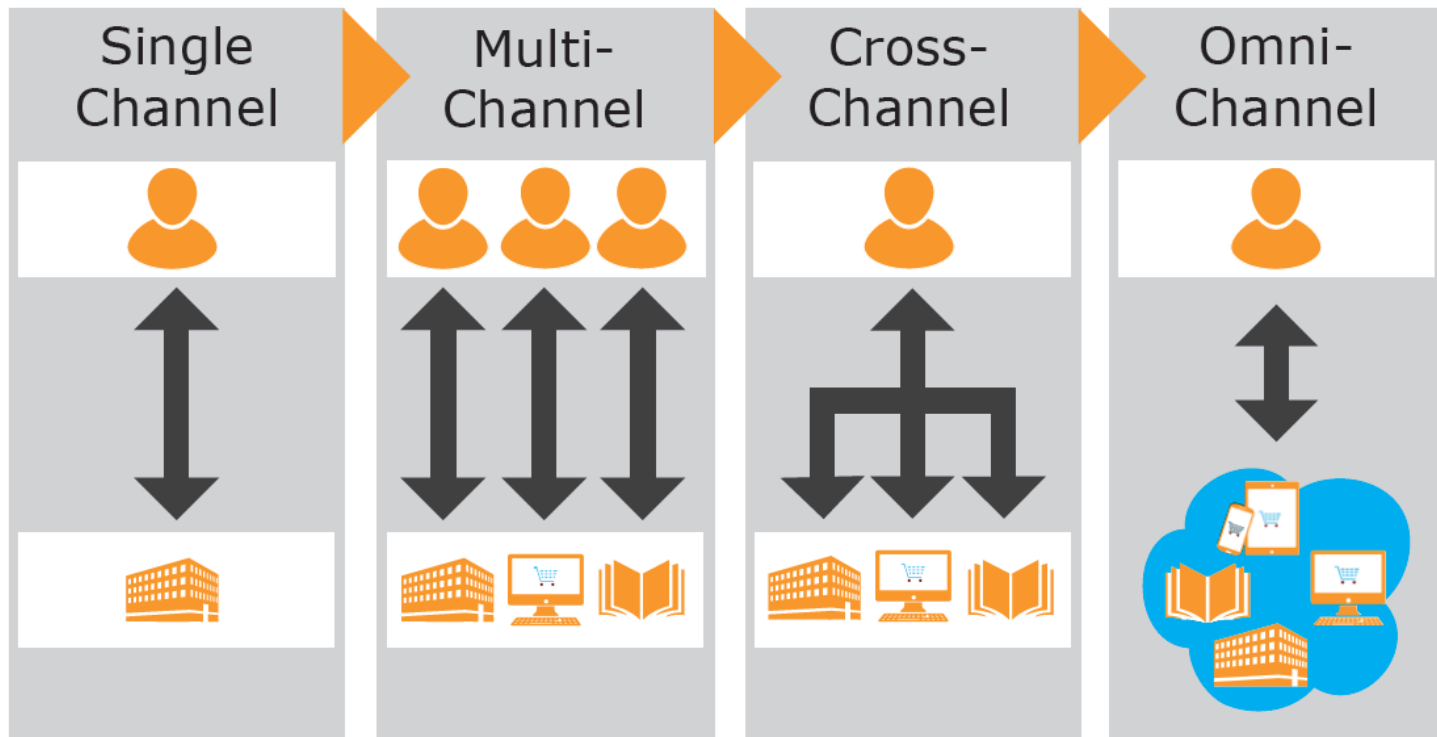
- Increasing capacity, speed and efficiency
 - Labor-only operations peaks at 2,000–3,000 orders per day
 - Requires decisions at the speed of automation with operational information
 - Drive throughput to outbound in best trailer load sequence for store and consumer home deliveries



Omnichannel challenge

- Buy anywhere, fulfill anywhere, return anywhere is the future
- UPS and commSource say:
 - 44% more likely to shop retailer if they can buy online and pick up in store
 - 62% want the ability to buy online and return items to a store
 - 44% of online shoppers abandon shopping carts due to the estimated delivery date
 - 78% pick cheapest delivery, 1% = next day, 5% = 2-3 day, 16% = 3-5 days
 - 8% of online shoppers fall into the “speeders” segment, ≤ 3 days for delivery, millennials and social networkers are key demographic
- Nielson: Nearly 50% of U.S. smartphone owners use shopping apps each month
- Booz & Co.: 40% of shoppers browse in a store before buying online

Omnichannel defined



- Customers and retailer have a single touch point

- Customers see multiple independent touch points
- Retailer's channels operate in independent silos

- Customers see multiple touch points as the same brand
- Retailer has a unified view of customer but operates in functional silos

- Customers have a holistic brand experience
- Retailer strategically leverages a unified view of the customer

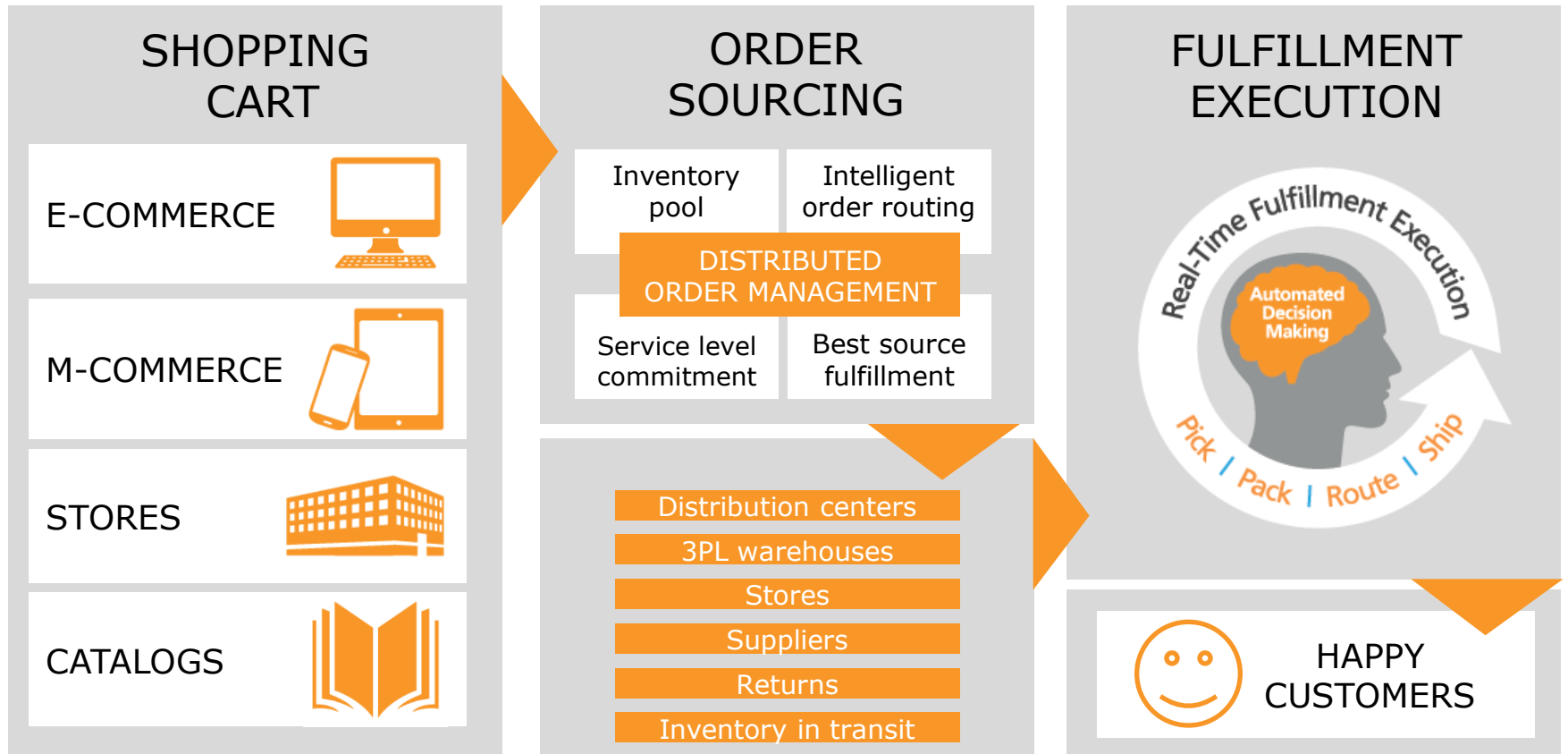
The new omnichannel reality

- Real-time, event-driven data needed to optimize fulfillment and automation
- Traditional ERP and WMS systems cannot provide this capability now or in the near future
- The basics needed:
 - A fully integrated, omnichannel-capable fulfillment execution system
 - One single, physical inventory to satisfy all channels
 - Breaks the barriers of WMS vs WCS into real-time fulfillment execution system
 - An integration tool/engine that can quickly link diverse WMS, TMS, OMS and ERP systems across the network
 - Cloud capable (private or public)
 - A distributed order management (DOM) system

What does this mean for processing an order?

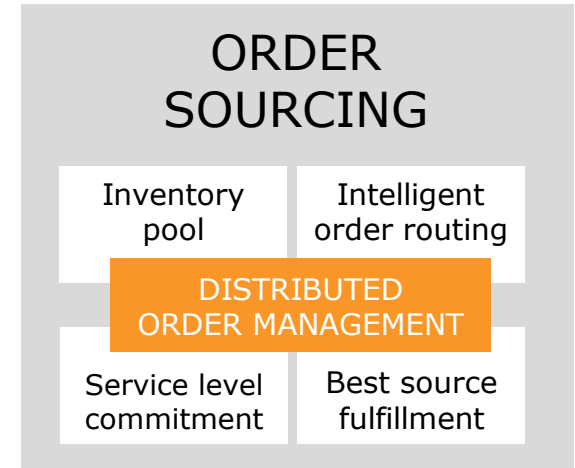
OMNICHANNEL ORDER PROCESSING

leverage inventory availability | optimize fulfillment costs | meet customer expectations



Distributed order management

- Manages the fulfillment process behind the scenes to provide a better shopping experience and delivery promise
- Orchestrates fulfillment across extended enterprise with intelligent order sourcing
- Single logical, physical view of the inventory across the extended distribution network
 - Distribution centers
 - Stores
 - Suppliers
 - In transit
- Responsible for determining delivery method and dates
- Considers merchandise in inventory or transit, and communicates information during selling process to ensure order capture
- Enables retailers to provide broader assortment of merchandise than what they physically distribute themselves



Omnichannel order sourcing challenges

- Need faster, cheaper order sourcing and fulfillment execution to compete
- Multichannel retailers need to manage inventory in DCs, stores, suppliers and in transit (online-only retailers have it easier)
 - Single logical, physical inventory required
 - Source inventory anywhere in network, execute order, then update inventory of record
 - Balance and accuracy across network
 - Integration engines required
- In-store fulfillment technologies emerging
 - Voice-directed picking
 - Inventory control challenges
- Inventory in transit
 - Source inventory location, plan order execution at destination (DC or store)

Best source fulfillment

Distribution centers

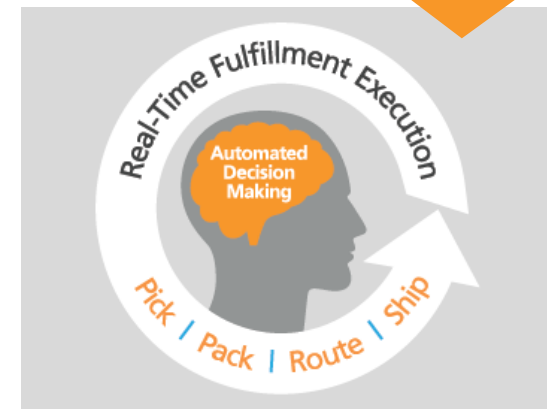
3PL warehouses

Stores

Suppliers

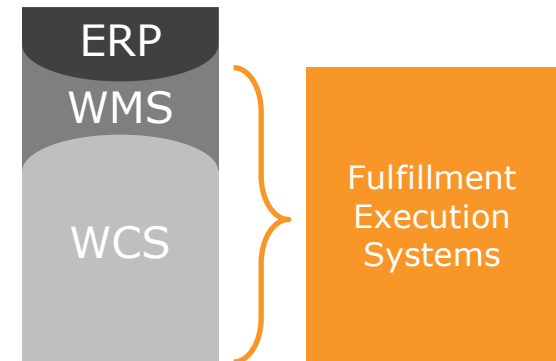
Returns

Inventory in transit



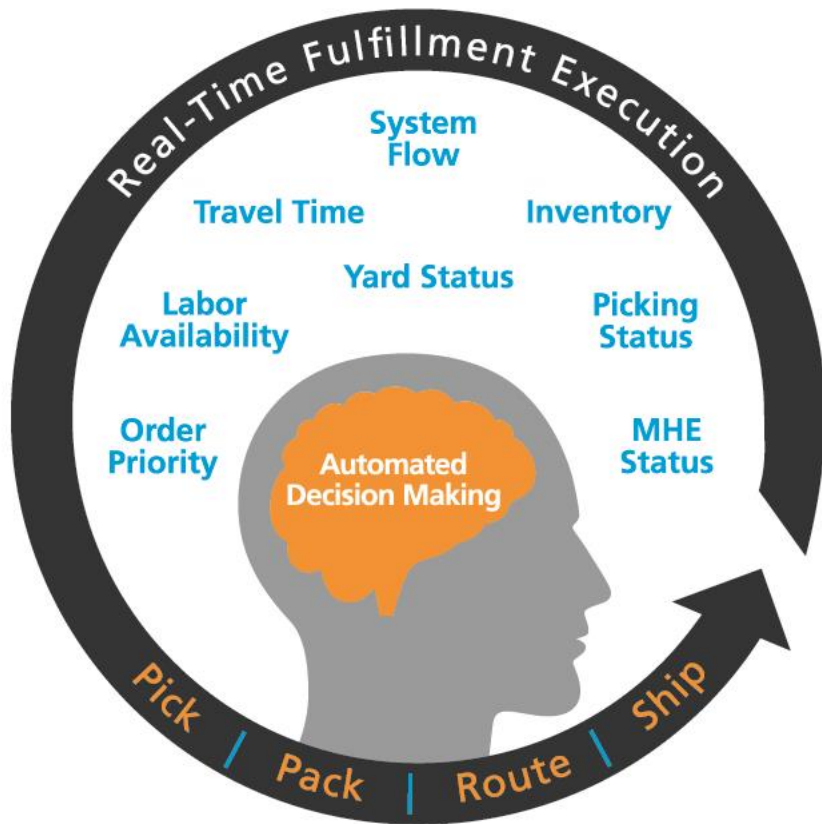
Fulfillment execution

- Traditional WMS
 - Designed for manual processes
 - Inventory, purchasing and outbound order management
 - Cycles of planning, executing, monitoring and adjusting
 - Focused on sequence and exception handling
 - “Manual real-time” and design of planning and execution cycles limit ability to optimize work
 - Requires supplemental order fulfillment, labor management, slotting and warehouse control software
- Next generation fulfillment execution systems
 - Traditional separate WMS, WCS and order fulfillment packages not enough to meet today’s requirements
 - Fulfillment execution solutions to change the game within the four walls and beyond
 - Unprecedented efficiency and accuracy
 - Higher throughput at lower costs



Fulfillment Execution Systems
how much labor + how much automation + real-time execution software = the highest ROI

Real-time fulfillment execution systems



- Software acts as the operational brain, automatically adjusting workflows
- Points-based algorithms automatically determine next best task
- Constant analysis of inventory, labor, process and equipment information
- Millisecond response and MHE integration enables decisions at the speed of automation

Key takeaway: when evaluating technology to enable omnichannel order fulfillment, look for:

- A distributed order management (DOM) system
 - Smart order sourcing logic to determine best fulfillment
- Cloud capable (private or public)
- An integration tool/engine that can quickly link diverse WMS, TMS, OMS and ERP systems across the network
- A fully integrated omnichannel capable fulfillment execution system
 - One single physical inventory to satisfy all channels
 - Real-time optimization based on order priority, labor, equipment
 - Labor management / performance incentive
 - High capacity material handling equipment

For More Information:

greg.cronin@intelligrated.com

nyle.morris@intelligrated.com

www.intelligrated.com

www.knightedsoftware.com

Or visit MODEX 2014 Booth #s 5123 & 4923