



ORACLE®

Oracle Warehouse Management (WMS) and RFID

Integrations, Enhancements and an Overview

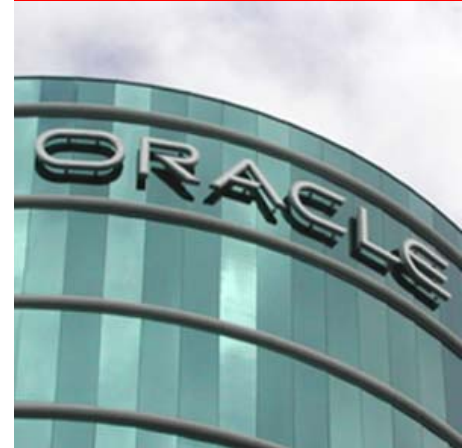
Aditya Agarkar
Director, Product Strategy

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decision. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

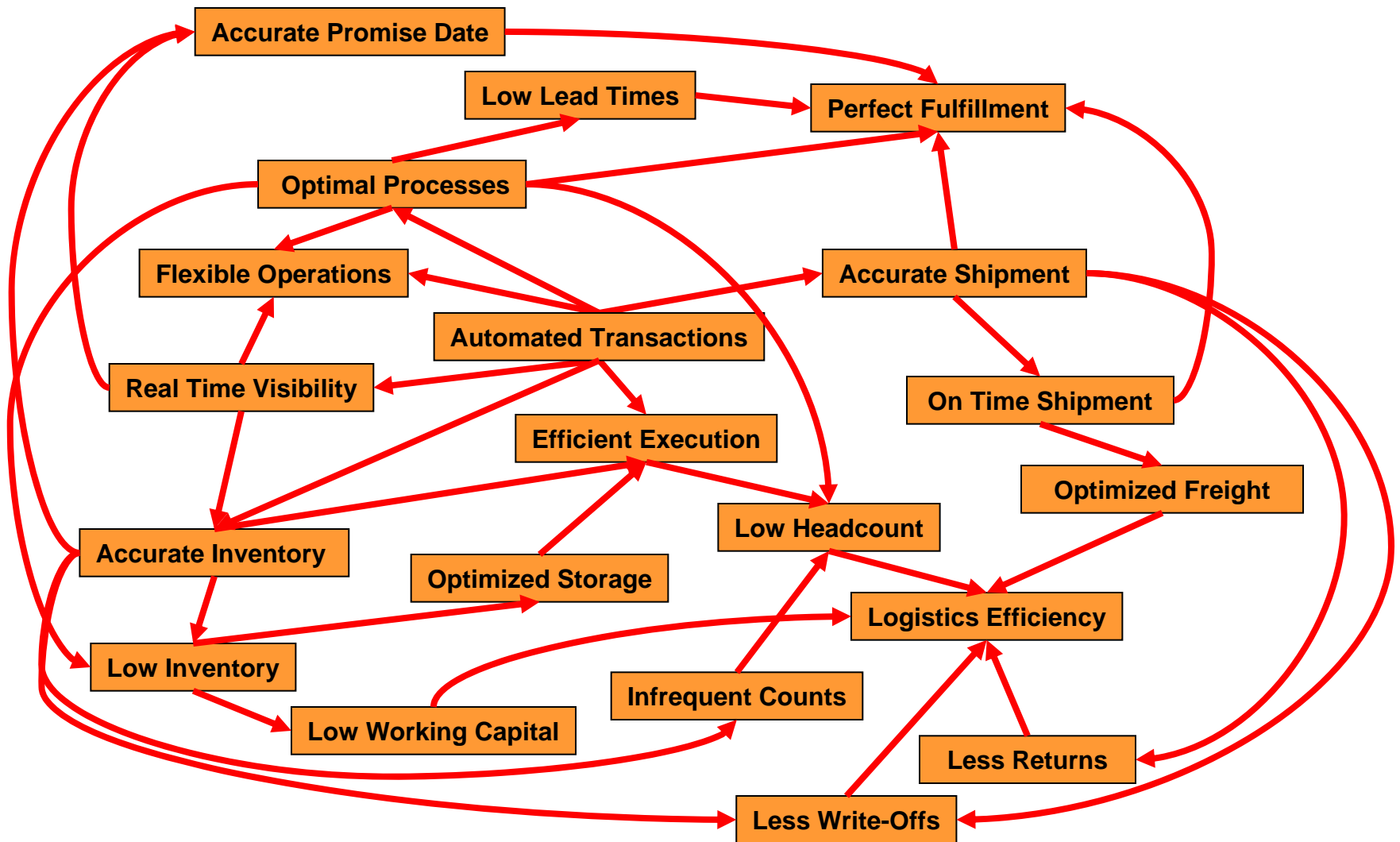
Agenda

- WMS Overview
- WMS Features
- WMS Direction
- Q&A



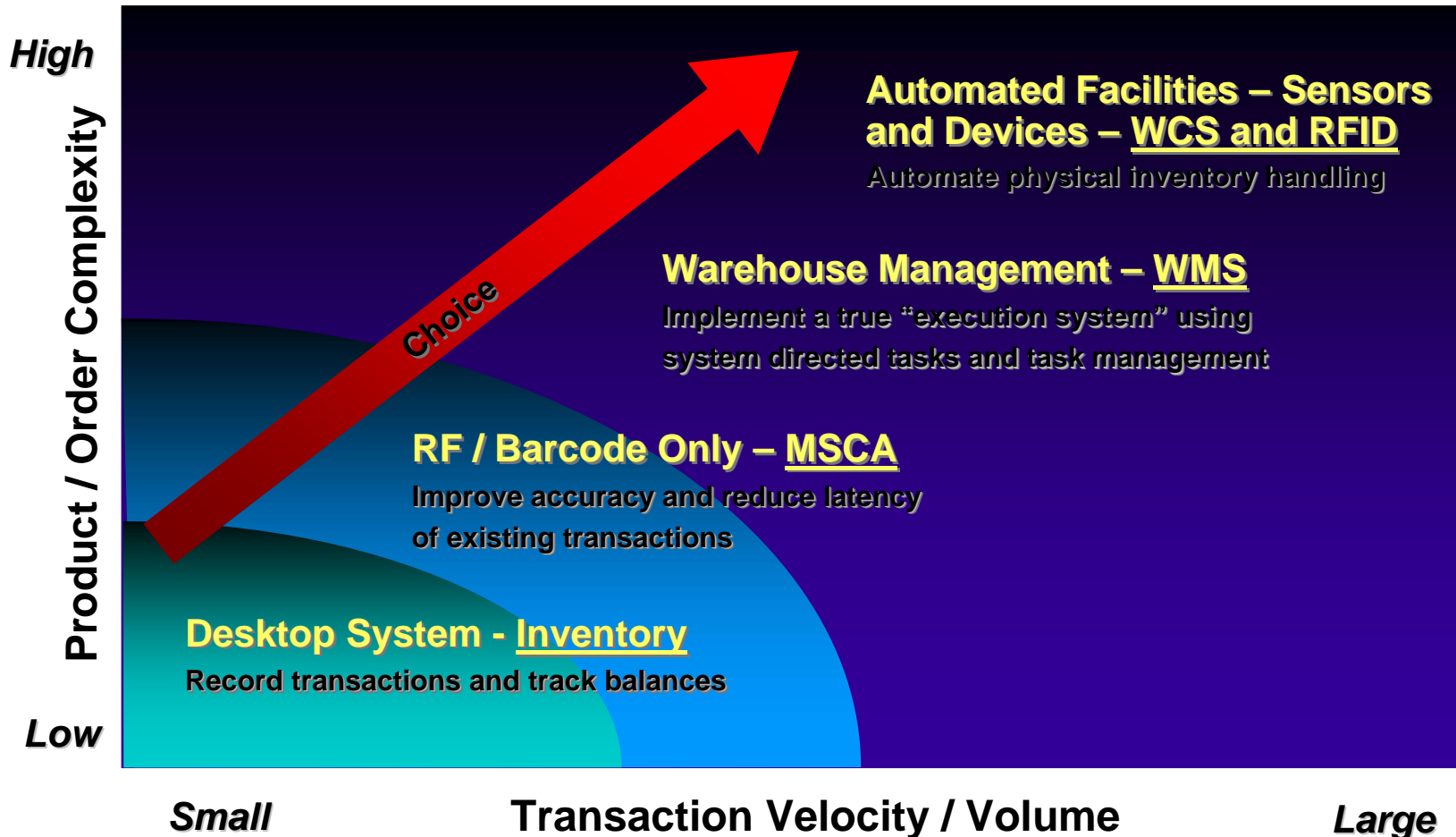
Challenges in Materials Management

What Really Matters?



Material Management Products

WMS for complex material management needs



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The above reflects Oracle's current development plans which are subject to change at any time

Who needs WMS?

	Low	High	
Number of SKUs and bins	Inventory	MSCA	WMS
Inventory Turns	Inventory	MSCA	WMS
Transaction Volume	Inventory	MSCA	WMS
Warehouse Capital Cost	Inventory	MSCA	WMS
Inventory Carrying Cost	Inventory	MSCA	WMS
Pressure on Operating Margin	Inventory	MSCA	WMS
Cost of Imperfect Order Fulfillment	Inventory	MSCA	WMS
Cost of Non-Compliance	Inventory	MSCA	WMS
Labor Cost	Inventory	MSCA	WMS

WMS Value Proposition

Features for operational efficiency, perfection and flexibility

Efficiency



Perfection

**Do More with
less of:**

1. Labor and Equipment
2. Warehouse Space
3. Onhand Inventory

**Balance cost and service in a
dynamic logistics environment**

**Perfect Order
Fulfillment**

1. Accurate Promise Date
2. On Time Shipment
3. Correct Item and Quantity Shipped

Manage changing environment

1. Dynamic business situation
2. Technology Innovation
3. Changing standards

Flexibility

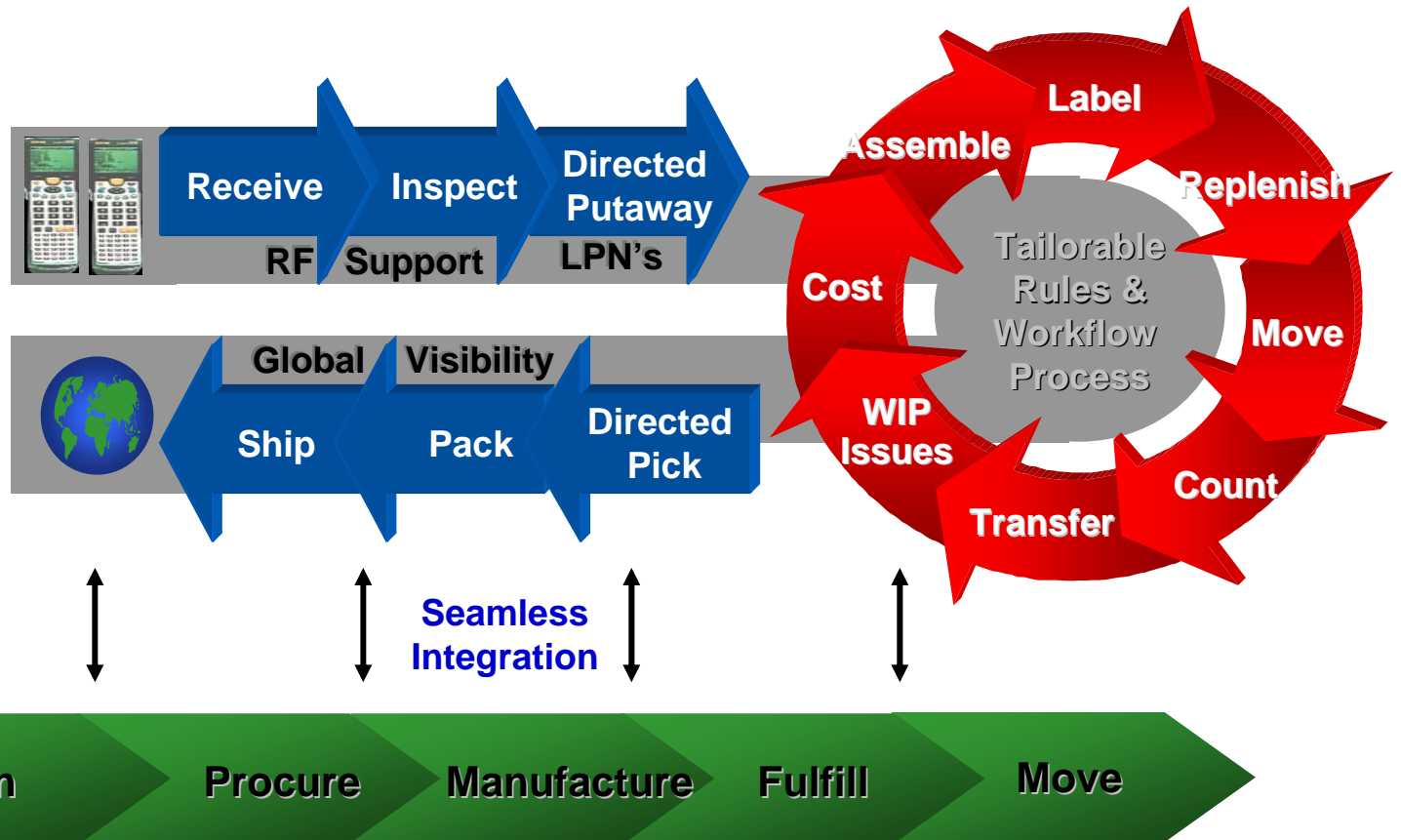
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Built-In and Integrated

Built-in, Integrated and highly efficient and flexible WMS for complex needs

RMA's
Purchases
Transfers

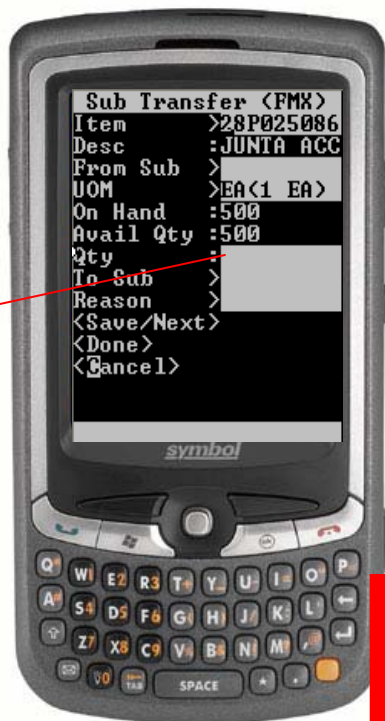
RTVs
Orders
Transfers



Mobile Transactions

Middleware to Support Device Independent Mobile Transactions

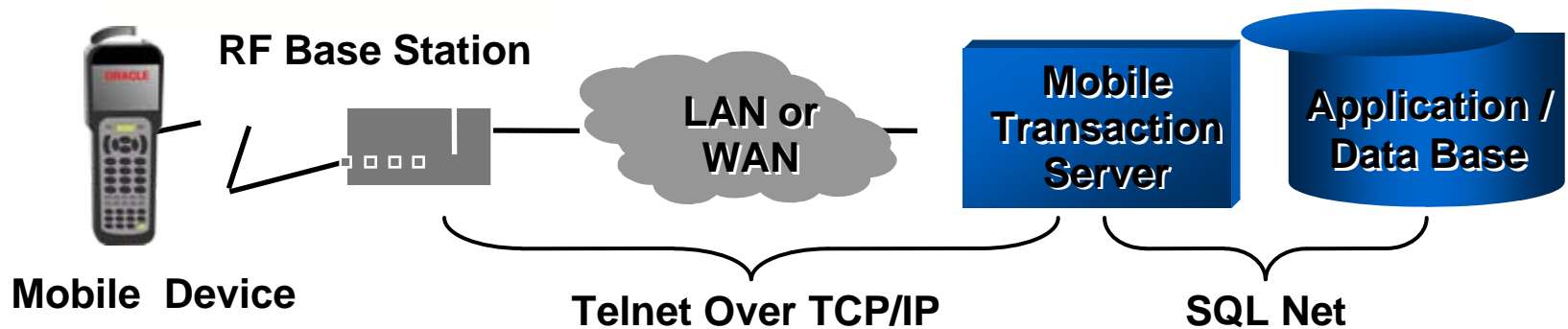
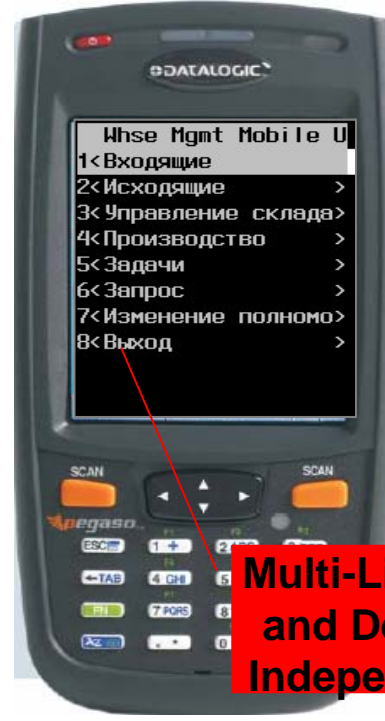
Transactions at Point of Use on Mobile Devices equipped with Barcode Scanners



Now also available in GUI



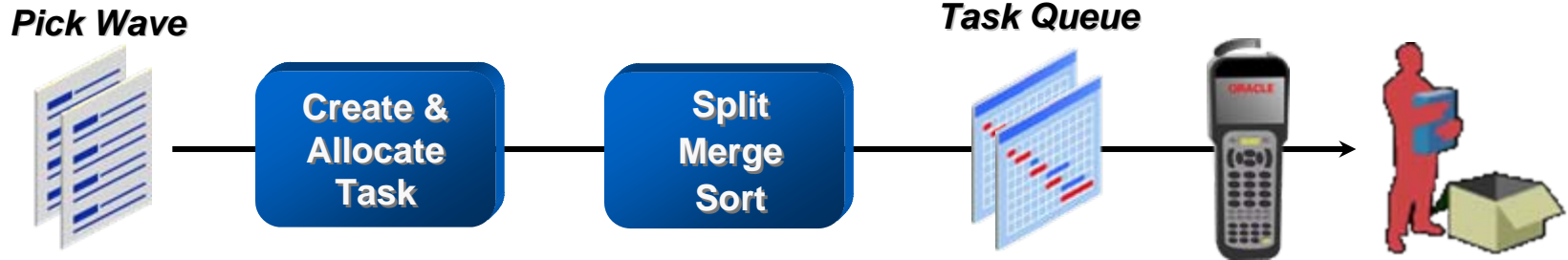
Multi-Lingual and Device Independent



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Directed Tasks

Rule Based Tasks to Direct Workers

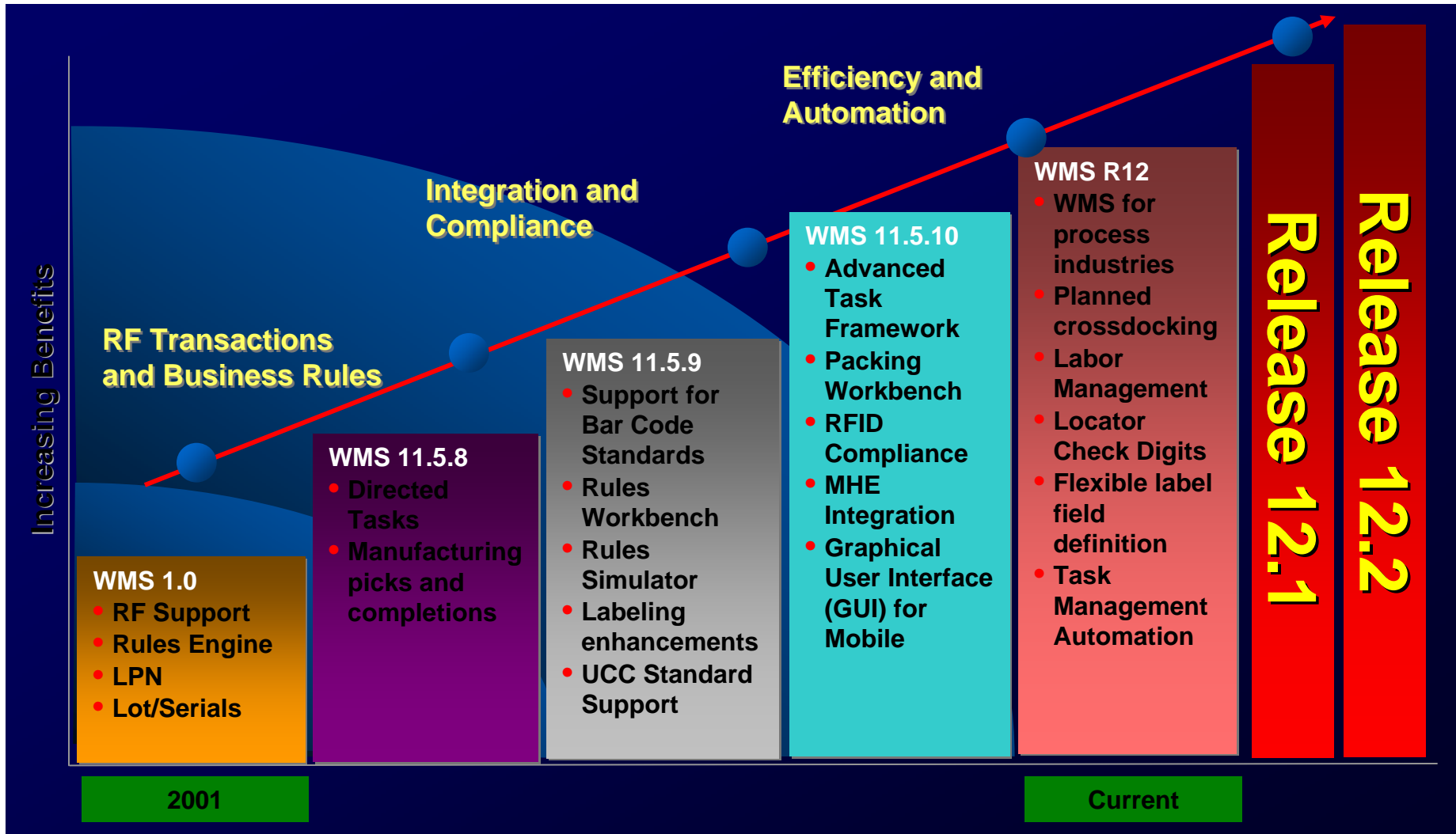


- Dispatch Tasks To RF Devices
- Support Multiple Picking Methodologies
- Match Skills and Equipment to Tasks
- Perform Task Sequencing and Interleaving

- Create Paperless, Streamlined Processes
- Align Pick Plan with Business Mix
- Reduce Safety Issues and Training Costs
- Significantly Reduce Travel Time

Warehouse Management System

Rapid ramp up and Continued Investment in the product

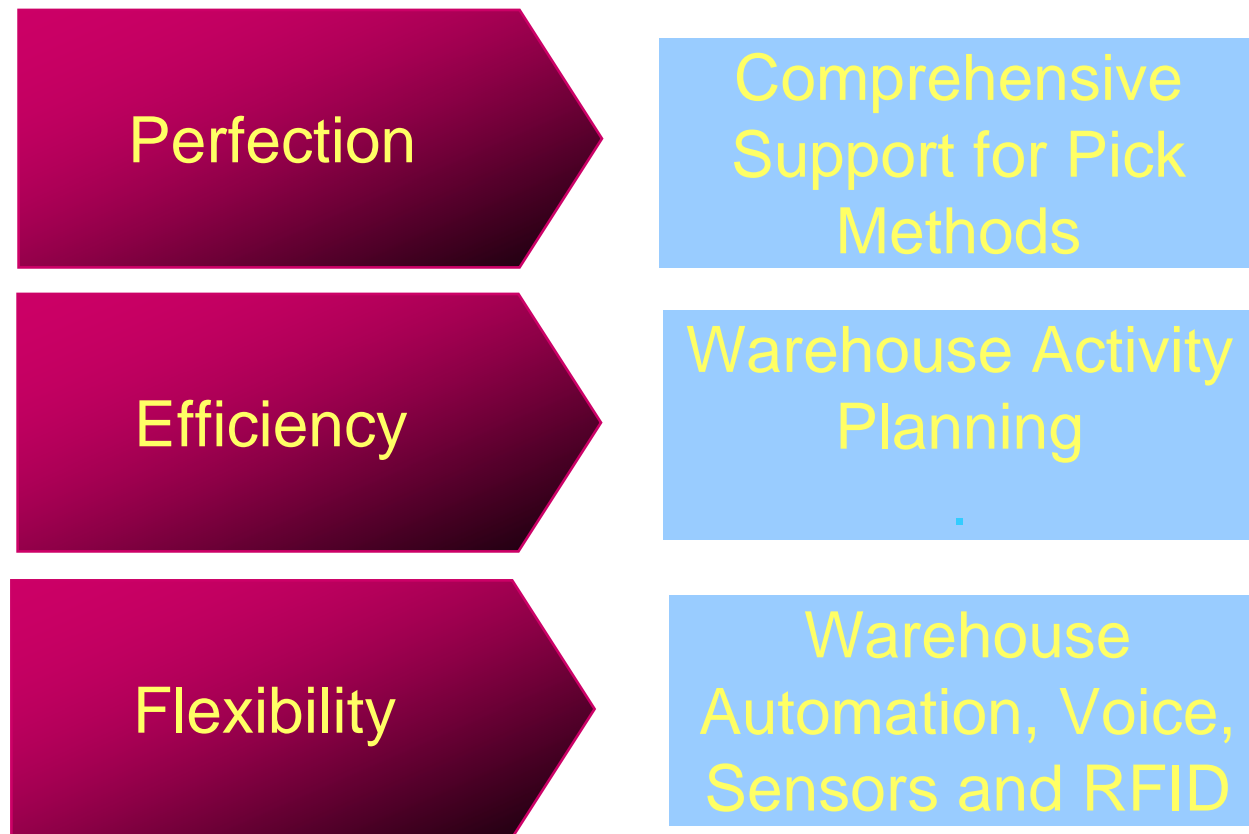


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WMS Value Proposition

Sample Features for Core Value Proposition



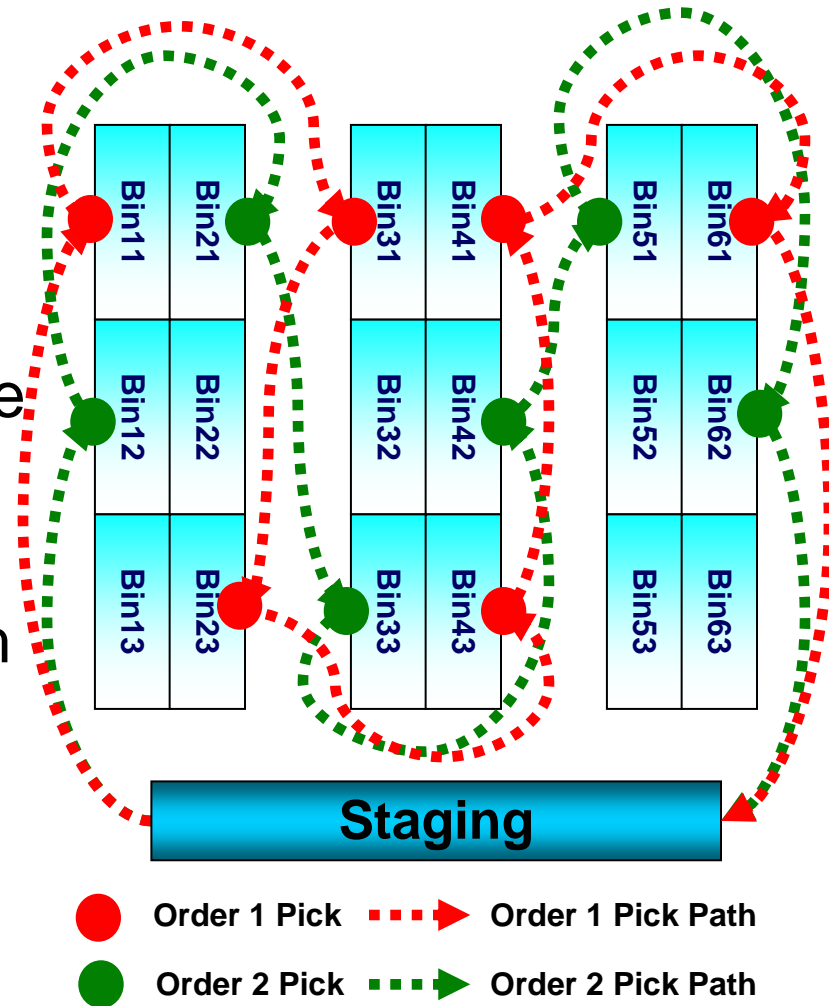
Comprehensive Transaction Support

Wide range of pick methods for your warehousing needs

Pick Methods	Current	Future
Order Picking	✓	
Pick by Label	✓	
Zone Picking	✓	+
Pick and Pass	✓	+
Cluster Pick / Batch Pick	✓	+
Case Picking – Pick to Pallet	✓	+
Case Picking – Pick to Belt	✓	+
Bulk Picking	✓	
Paper Picking	✓	

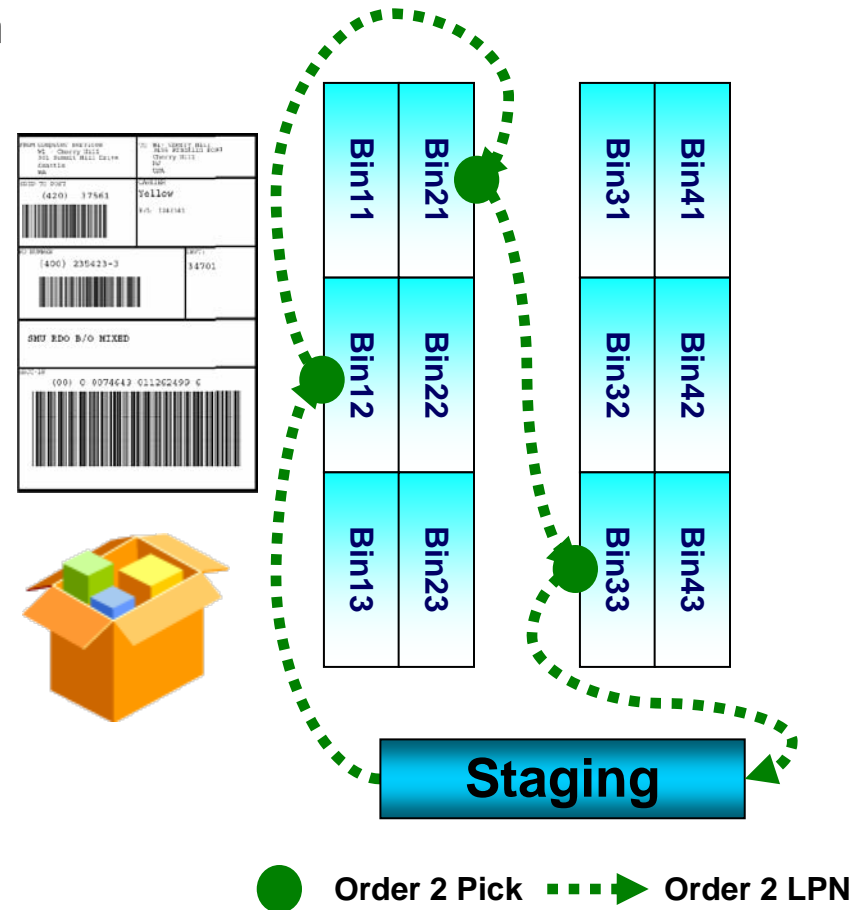
Order Pick

- Example: Following orders to be picked
 - Order 1
 - Order 2
- Warehouse operator will make two passes of the warehouse for each order
- Order should be large enough for equipment capacity to be utilized fully



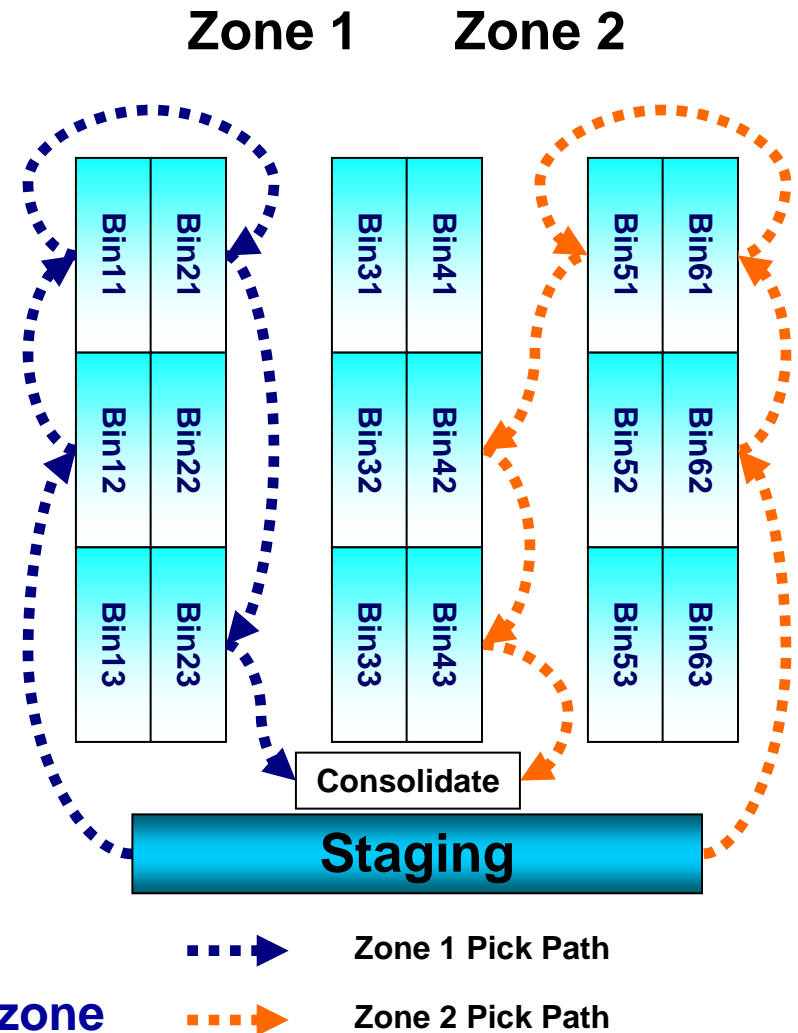
Label Pick

- Cartonization - Determine a carton size and generate an LPN label at release
- Warehouse operator will scan the LPN label and WMS will dispatch tasks for the label
- Process Alternatives:
 - Pick to Tote: Perform Packing into final shipping container at pack station
 - Pick and Pack: Possible to eliminate downstream packing operation by picking into a final shipping carton or container



Zone Pick

- Example: Each picker is assigned a pick zone
 - Zone 1
 - Zone 2
- Warehouse operator will pick from their zone and pass to the picker in another zone
- Parallel picks across zones
 - Possible to reduce order pick time
 - Requires order consolidation after picks are complete
 - Pick profile may be different e.g. Pallet pick in Zone 1 and case pick in Zone 2



Enhancements to ensure that separate Carton labels can be generated for each zone

