



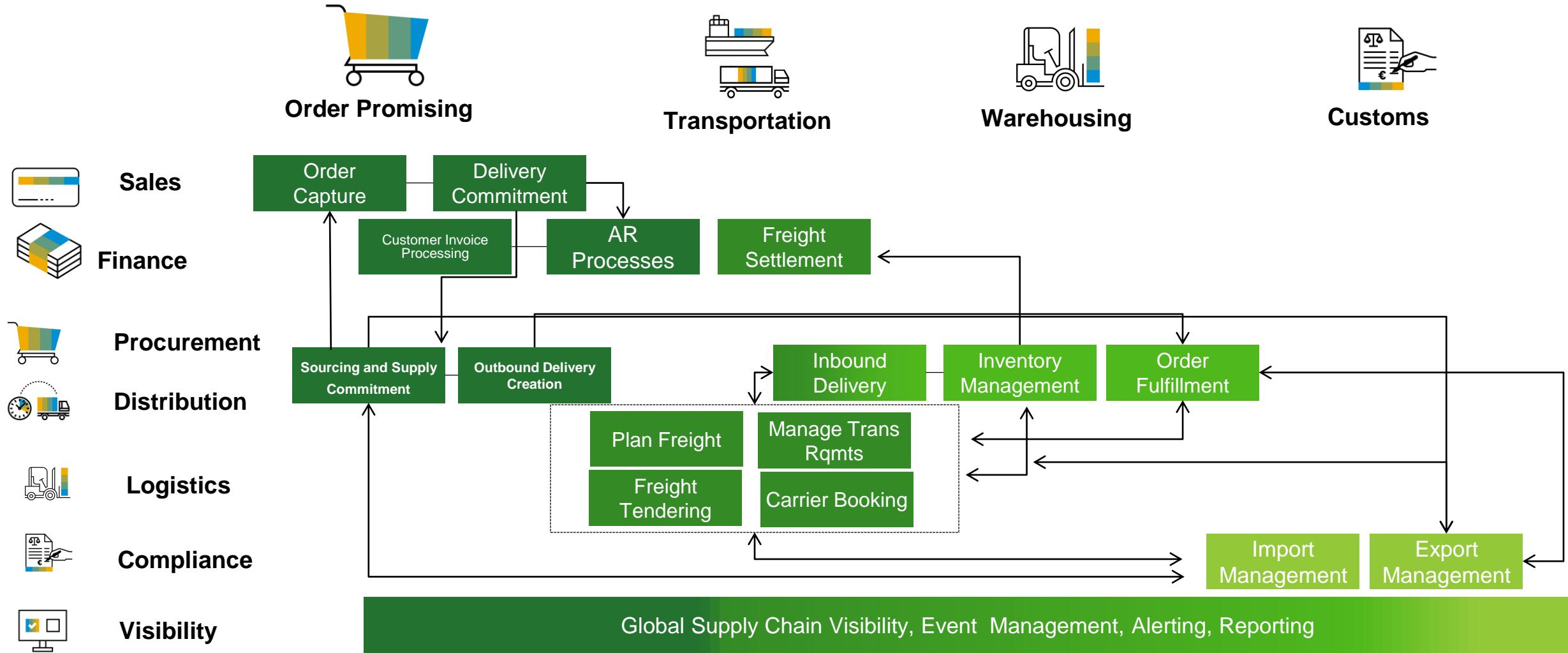
# SAP Extended Warehouse Management

## Operational Excellence in Warehousing

Trond Røvang  
SAP Solution Expert Digital Supply Chain

CUSTOMER

# Supply Chain Performance Influences Customer Experience



# SAP's Platform Strategy for Digital Supply Chain Execution



## Functional

Holistic and vertical



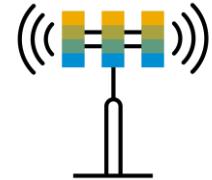
## Integrated

Support for end-to-end processes



## Flexible

Processes and deployment



## Connected

Real-time insight and network communication

## Supply Chain Execution Platform

Warehouse Management

Yard Logistics

Transportation Management

SAP Leonardo Apps

Track and Trace

SAP Leonardo Foundation

SAP HANA/SAP Cloud Platform

# Shift to Modern Organized Warehousing

From traditional stocking warehouses to flexible multi channel fulfilment centers



Barcode based

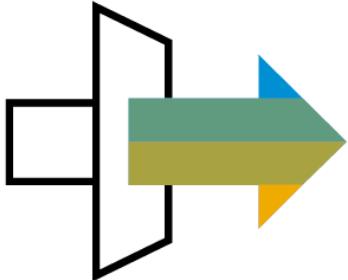
Reactive

Manual Warehouses

Storage operations

Siloed function

Passive storage



RF Based Execution

Mobile and RFID

Voice Picking

Augmented Reality

Automation

Optimization and Flexibility

Value Added Services

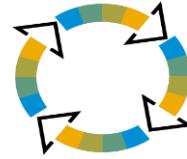
Maximize order fulfilment efficiency and accuracy  
for competitive advantage

# SAP Extended Warehouse Management

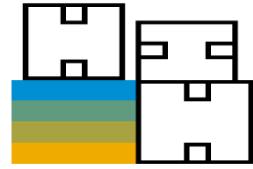
## Business benefits



Higher customer service



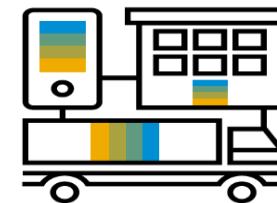
Process standardization



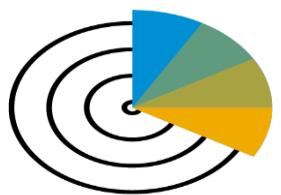
Reduced inventory and labor costs



Stock transparency



Flexibility to order processes



Improved space utilization

## Typical results

- Organizations adopting warehouse management systems experience benefits such as

**48%** Lower customer order cycle time

**6%** More orders shipped on time

Efficient Labor Allocation

Reduced Operational Expenses

# Industry specific functions supported by EWM

Unique requirements of all major industries

## Automotive



- Production supply
- Kit to stock
- Kit to order
- QM Integration
- MES integration

## Chemicals and Oil & Gas



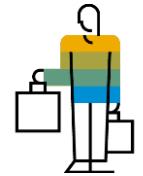
- Batch Management
- Dangerous Goods
- Quality Management

## Consumer Goods



- Catch weight
- Batch Management
- Shelf-life
- Production and MES Integration
- High volume business

## Retail



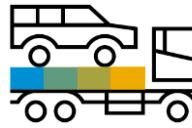
- Merchandise crossdocking
- Batches and Serial Number
- Catch Weight
- Shelf-life
- Returns clerk

## Service Parts



- Slotting
- Kit to stock
- Kit to order
- QM integration
- MES Integration

## Transport & Logistics



- Transport Cross Docking
- Dangerous Goods
- Transit Warehousing
- Warehouse Billing

## High Tech



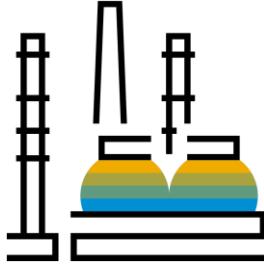
- Serial Number Management
- Production supply

## Life Sciences



- Batch Management
- Shelf-life
- QM Integration

# Types of Warehouses for SAP EWM



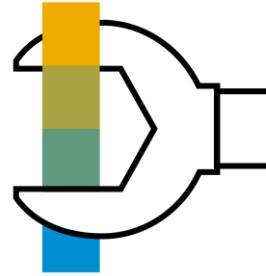
## Production Warehouse

- Raw-material handling
- Integration of quality management
- Production supply
- Receipt from production
- Staging and consumption



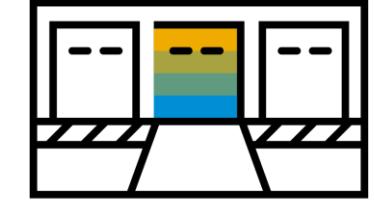
## Distribution Center

- Complex process and high volume
- High degree of automation
- Wave management
- Slotting and rearrangement
- Replenishment



## Service Parts Warehouse

- Low to very high complexity
- Kitting and value-added service
- High volatility
- Serial numbering
- Heterogeneous product range



## Cross-Dock or Transit Warehouse

- Regional hubs, gateways, and container freight station
- Air and ocean freight handling
- Unit-load device and container handling
- Receive from and send to airport or seaport (drayage)

# Solution Details SAP EWM

A complete offering resulting from solid, continuous investment

- EWM 5.0
- EWM 5.1
- EWM 7.0
- EWM 7.01
- EWM 7.02
- EWM 9.0
- EWM 9.1
- EWM 9.2
- EWM 9.3
- EWM 9.4/  
S/4HANA 1610
- EWM 9.5/  
S/4HANA 1709



CORE PROCESSES

## Inbound Processing

- ASN data receiving, validation
- Transportation unit mgmt.
- Goods receipt
- Putaway bin determination
- Internal routing
- Deconsolidation
- Putaway
- Returns / reverse logistics

- Transportation cross docking
- Pick from goods receipt/ push deployment
- Yard management
- Shipping Cockpit

- Warehouse Monitor
- RF / RFID enablement
- Quality inspection
- Import / export integration
- EH&S integration



## Storage & Operations

- Goods receipt optimization
- Advanced returns mgmt.
- Direct receipt from production
- FIORI: Lean Warehouse Clerk Inbound
- E-commerce Returns
- Rearrangement
- Slotting
- Inventory counts / record accuracy
- Replenishment
- Scrapping
- Kit-to stock
- Warehouse Billing
- Stock consolidation

- Labor management
- Opportunistic cross docking
- Merchandise distr. X-docking
- Stock-specific unit of measure

- Migration tools
- Pick by Voice
- Pallet building algorithm
- Seamless pallet tracking
- Packaging specification
- Batch management
- Serial numbers
- Catch weight
- Material Flow System
- Warehouse cockpit
- Dock Appointment Scheduling
- Integration with SAP TM via ERP
- Direct TM – EWM Integration



## Outbound Processing

- Order deployment
- Route determination
- Transportation unit mgmt.
- Wave management
- Picking bin determination
- Warehouse order creation
- Picking, packing, staging
- Loading & goods
- Kit-to-order
- Direct outbound delivery
- Production supply
- Production staging and consumption
- FIORI: Lean Warehouse Clerk Outbound
- Pick by Cart

- Task interleaving
- Semi-system-guided work
- Enhanced labor management

- Graphical warehouse layout
- Transp. integration (LES)
- Claims & Returns
- ERP transportation integration
- Multiple EAN
- Cartonization
- Rapid deployment package
- KPIs, Performance dashboard
- Retail enhancements



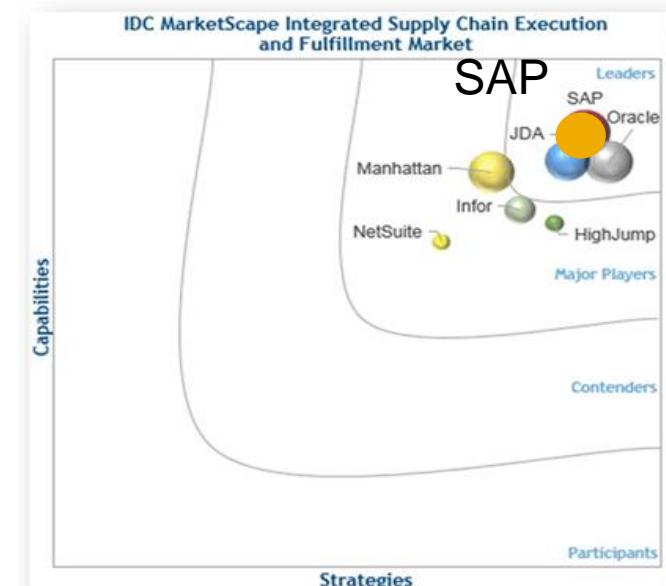
CROSS AREAS

# SAP EWM – Compelling Analyst Endorsement

## IDC Market Scape SCE

- + Broad functional scope, addressing cross-industry requirements
- + Large network of skilled partners

[Read the Full Report](#)



## Gartner WMS Magic Quadrant

- + Fastest-growing WMS provider
- + Very diversified vertical industry coverage
- + Native Material Flow System (MFS)



## ARC WMS Market Report

- + #1 in 4 categories, including based on revenues
- + Robust functionality, interoperability with the SAP suite of solutions



SAP's vision of aligning WMS with transportation , manufacturing, trade compliance, environmental, health, and safety is extensive as well as its very compelling platform strategy for addressing SCE convergence

**Gartner**

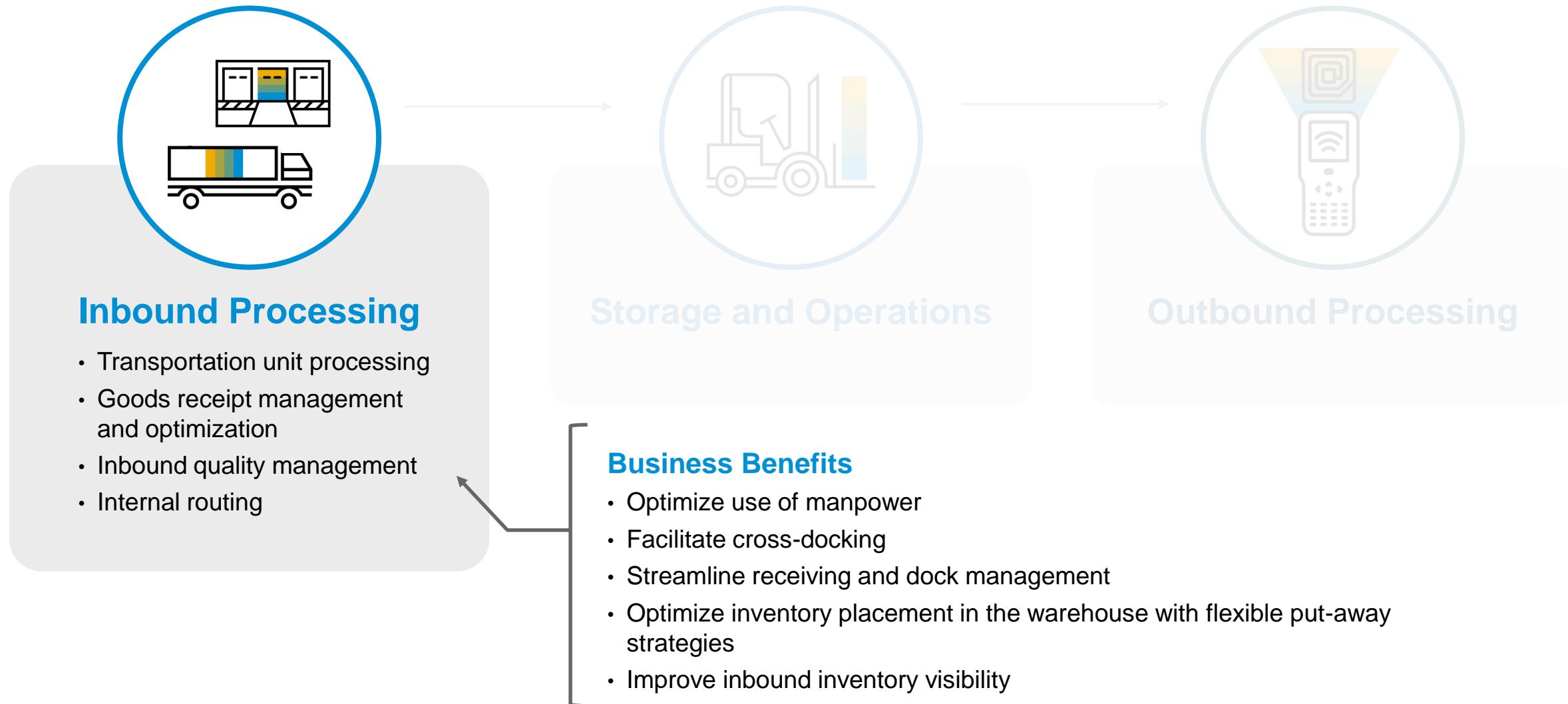
Dwight Klappich, Gartner, 21st January 2016

# SAP Extended Warehouse Management – Overview



Analytics • Transit warehousing • Labor management • Cross-docking • Compliance  
Native technologies • Implementation tools

# SAP Extended Warehouse Management – Inbound Processing



# SAP Extended Warehouse Management – Storage and Operations



Inbound Processing



## Storage and Operations

- Physical inventory
- Slotting
- Replenishment and rearrangement
- Kit-to-stock management
- Value-added services
- Transit warehouse
- Warehouse billing

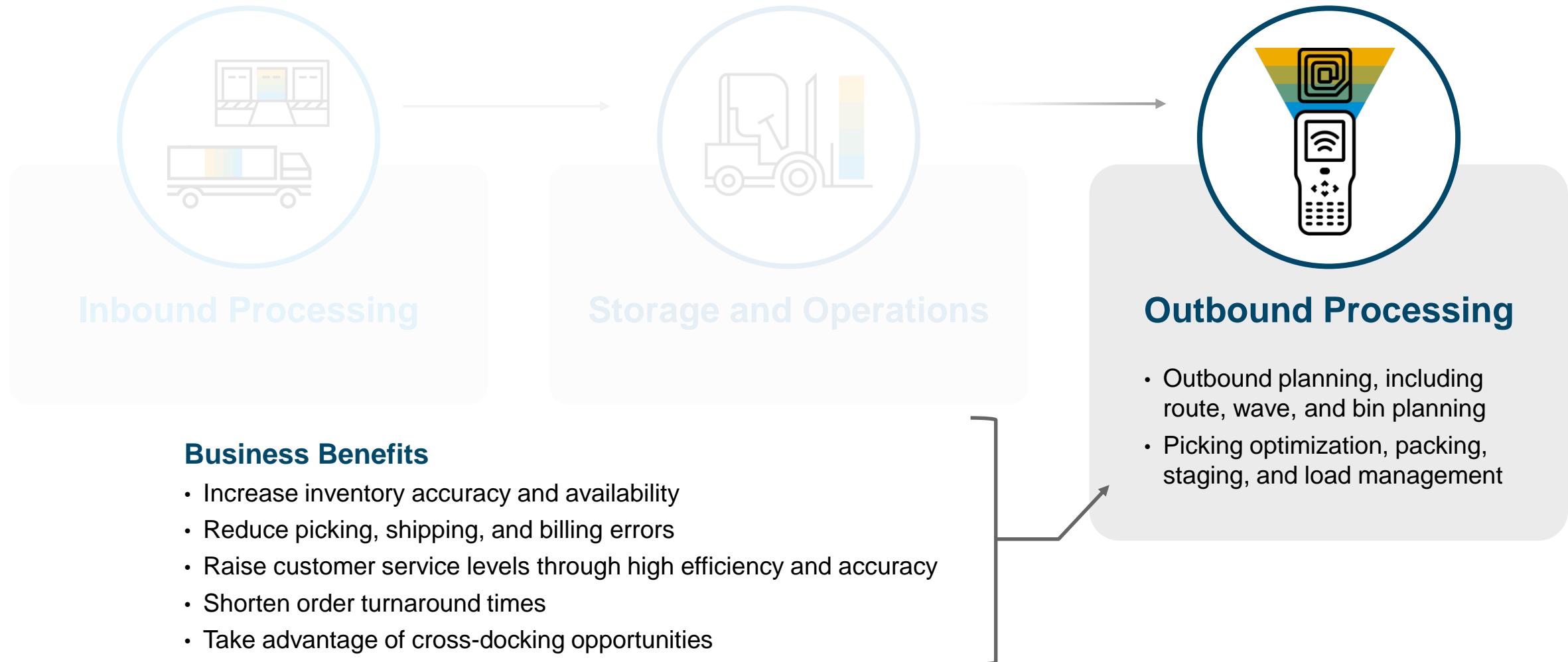


Outbound Processing

## Business Benefits

- Track every unit to the lowest level of detail
- Manage inventory balances on an ongoing basis
- Reduce effort for annual physical counts
- Eliminate inefficient movement and redundant effort
- Improve facility utilization

# SAP Extended Warehouse Management – Outbound Processing



# SAP Extended Warehouse Management – Best in Class Warehouse Management Solution



# Native integration with SAP Business Suite

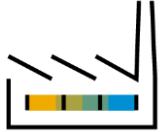
## Comprehensive SAP Business Suite Integration Coverage



### Sales & Procurement



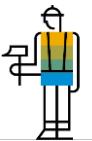
- Sales/Stock transfer order scheduling / ATP, Back order processing
- Sales, purchase, STOs, Advanced claim and returns



### Production Planning



- Advanced production Integration-Staging and Consumption
- Supply to production, Good receipt from production
- SAP ME and SAP MII Integration



### Environment

### Health & Safety



- Compliant dangerous goods shipment
- Hazardous substance handling



### Global Trade Services



- Compliance with import and export regulations
- Customs; bonded warehouse



### Quality Management



- External and Internal receipts and Warehouse internal inspections
- Pre-sampling in Production, Acceptance Sampling before GR
- Inspection Lot Summary and Recurring Inspection



### Logistics and Transportation



- Integration of transportation Planning result for inbound and outbound
- Distribution of the execution result from EWM to ERP
- Load plan integration



### SCE Integration



- Integration of batch information to SAP GBT during inbound / outbound /Internal processes
- RFID integration

# SAP Extended Warehouse Management – Built in optimization



## Optimization

- Warehouse order - creation of optimal work packages
- Internal routing
- Slotting – optimal storage
- Interleaving for internal movements



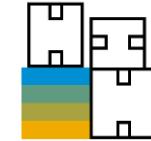
## Cartonization & Pallet Planning

- Creation of shipping handling units (HUs) based product master data and outbound delivery orders, -
- Leverages advanced package building optimization algorithm
  - -weight, height, and volume
  - picking sequence



## Wave management

- Optimal grouping of warehouse requests/orders to control warehouse activities
- Automatic, semi-automatic & manual wave planning & release
- Template-driven wave creation



## Stock Consolidation

- Merge partial quantities into complete
- Free up warehouse space

**Improved warehouse productivity and routing**

**Automatic and efficient shipping-unit determination**

**Optimized work orders; efficient pick path**

**Consolidate partials to free up space**

# SAP EWM – Best in Class Labor Management

## Master Data

- Processor, team and shifts
- Personal, Fatigue and Delay factors
- Mass maintenance and assignments

## Time and Attendance

- Integration with external T&A (time and attendance) system
- View and maintain clock-in/clock-out data
- Tracking activities based on time and attendance
- Capture times for direct and indirect activities

This screenshot shows the SAP EWM interface for managing warehouse master data. It displays a list of processors, their descriptions, and various parameters like shift, proc group, name group, and reporting group. A detailed view of a processor's activity is shown at the bottom.

Processor	Description	Warehouse Shift	Proc Group	Name Group	Rep Gr.	Rep Grp Desc.
BROWN	William Brown ✓	T000 PTWY	LM01TEAM1	LM01 Team1 ✓	GARCIA	Carlos Garcia
GARCIA	Carlos Garcia ✓	A001 PICK	LM01TEAM1	LM01 Team1 ✓	GARCIA	Carlos Garcia
GOMEZ	Emeralda Gom. ✓	T000 PTWY	LM01TEAM2	LM01 Team2 ✓	JONES	Mary Jones
JONES	Mary Jones ✓	A001 PICK	LM01TEAM2	LM01 Team2 ✓	JONES	Mary Jones
MILLER	Ian Miller ✓	RCVE	LM01TEAM2	LM01 Team2 ✓	JONES	Mary Jones
SCOTT	Jessica Scott ✓	A001 PICK	LM01TEAM3	LM01 Team3 ✓	SCOTT	Jessica Scott
SMITH	Paul Smith ✓	RCVE	LM01TEAM3	LM01 Team3 ✓	SCOTT	Jessica Scott
WALKER	Elizabeth Walker ✓	T000 PTWY	LM01ALL	LM01 All ✓	WALKER	Elizabeth Walker

This screenshot shows the SAP EWM interface for managing time and attendance. It displays a list of events for specific employees (GARCIA and GOMEZ) across different dates and times, showing work periods and breaks.

Processor	Description	Event Date	Time	Event	Team	Name Lead	Proc. Group	Name Group	External Data
BROWN	William Brown	14.04.2017	07:54:00	I	WORK	GARCIA	Carlos Garcia	LM01TEAM1	LM01 Team1
			12:00:00	O	BREAK				
			12:50:00	I					
			17:00:00	O	WORK				
			07:59:00	I					
			12:01:00	O	BREAK				
			12:58:00	I					
			17:04:00	O	WORK				
			07:56:00	I					
			12:02:00	O	BREAK				
			12:59:00	I					
			17:03:00	O	WORK				

## Labor Standards

- Labor Activity Code
- Engineered Labor Standards
- Travel distance calculation
- Planned workload calculations
- BRF Plus rules

This screenshot shows the SAP EWM interface for managing labor standards. It displays a list of planned and executed workloads for various employees, detailing tasks, duration, and type.

Warehouse ID	Step	Duration	Time Unit	LA Code	Descr. LA	LA Group Desc.	LA G Eve	Type Descr.	Eve Type
23110	OPN1	2	MIN	OPACK	Packing	OUTB	Outbound	PROD	Productive Activities
23111	OLD1	1,833	MIN	OLLOAD	Loading	OUTB	Outbound	PROD	Productive Activities
23111	OPR1	2	MIN	OPACK	Packing	OUTB	Outbound	PROD	Productive Activities
23111	OLD2	1,833	MIN	OLLOAD	Loading	OUTB	Outbound	PROD	Productive Activities
23113	OPR1	2	MIN	OPACK	Packing	OUTB	Outbound	PROD	Productive Activities
23114	OLD1	1,833	MIN	OLLOAD	Loading	OUTB	Outbound	PROD	Productive Activities
23115	OLD1	1,833	MIN	OLLOAD	Loading	OUTB	Outbound	PROD	Productive Activities
23115	OPR1	2	MIN	OPACK	Packing	OUTB	Outbound	PROD	Productive Activities
23116	OLD1	1,833	MIN	OLLOAD	Loading	OUTB	Outbound	PROD	Productive Activities
23117	OPR1	2	MIN	OPACK	Packing	OUTB	Outbound	PROD	Productive Activities
23118	OLD1	2,580	MIN	OLSTACK	Stacking	OUTB	Outbound	PROD	Productive Activities

## Tracking and Analytics

- Employee performance evaluation and execution analysis
- Simulation and changes
- Reporting by individual/ group/ entity
- Integration with HCM for incentives

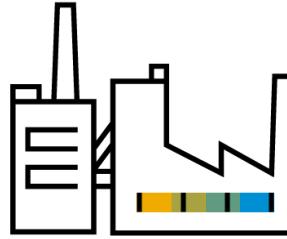
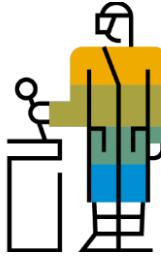
This screenshot shows the SAP EWM interface for tracking and analytics. It displays performance statistics and simulation results for a specific employee (TEST) over a period of 10 minutes.

Later Activity Code	Actual Execution Durat.	Adj. Plan. Exec. Duration	Simulated Adjusted Planned Durat.	Time Unit	Ratio APDZD	Simulated APDZD
TEST	10	5	10 MIN	0.500	1.000	
TEST	10	8	20 MIN	0.800	2.000	

Harmonize the pictures

# Production Integration with EWM

Tightly integrate manufacturing with warehouse execution



## Staging & Consumption

- Production/Process Order in EWM
- EWM controls material flow
- Work Center / RF / MES
- Posts consumption in EWM

Consumption for Order 1001247 - Warehouse QI31

Handling Unit:	800000537
Product:	MPCOMP5
Batch:	
Operation or Activity:	0010
Quantity:	15,000 KG
*Quantity:	3,000 KG

Product Description: MP Component 5  
Batch in restr.-use:   
Item Number of Reser...: 2  
 Consumption Quantity  
 Remaining Quantity

Post Consumption

## Receipt of finished or semi finished goods from Production

- API for receipt from External System
- Warehouse executes production staging, issues and receipts
- Performance



- Improve inventory visibility and control as material movements are posted in real time in the warehouse

## MES integration

- Good Receipt & Goods issue in EWM with SAP MII interface
- Good receipt posing using CTC wizards with SAP ME integration

Configuration Wizard: Overview

SAP MII: Connections

Step 34 of 232: SAP MII Configuration Wizard

Page 2 of 9: SAP EWM Connection Configuration

SAP EWM Information

Program ID: EVIEWM001	User: WDBV_WDF_SAP_Corp
Server: 192.168.1.100	Port: 200
Client: 001	System Number: 24
Language: EN	

Details for interEWM\_SAP\_EWM\_JCO

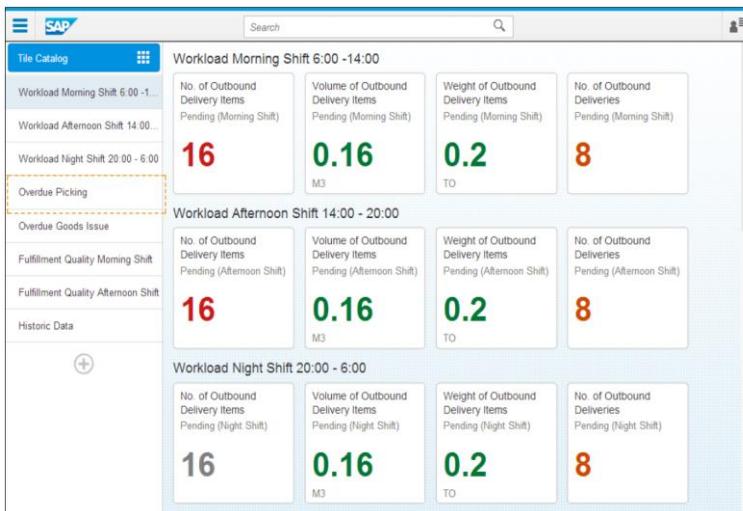
Name: interEWM_SAP_EWM_JCO	Image: interEWM_SAP_EWM_JCO
Description: SAP EWM JCO	Server: 192.168.1.100
Client: 001	Port: 200
Language: EN	Use Logon Group: No

# World-class analytics and monitoring with SAP EWM

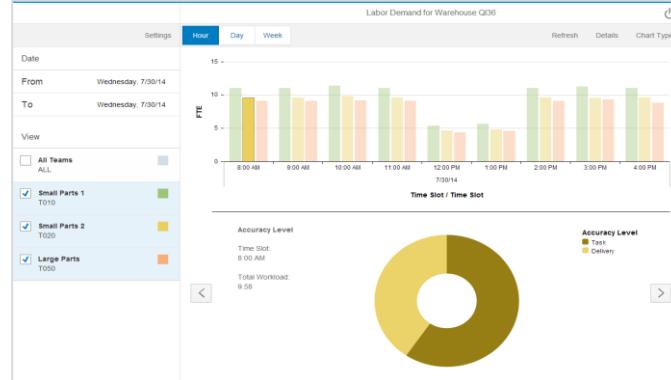
## Comprehensive stock and process transparency from reporting to execution

### Fiori Dashboards

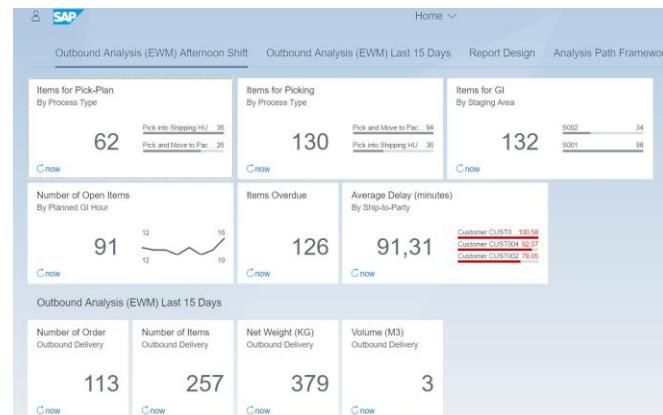
- Operational reporting of Inbound and Outbound
- Smart Business Dashboard based on SAP Fiori design
- Core Data Services view for outbound process with predefined CDS data models



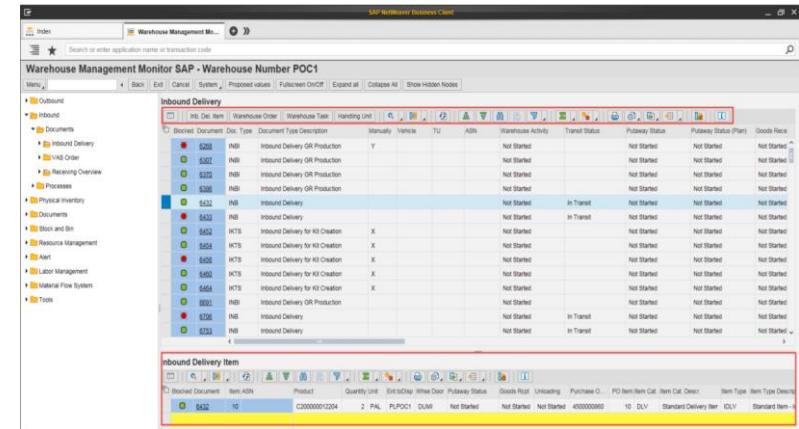
### Real-time Predictive Analytics Labor Demand Planning



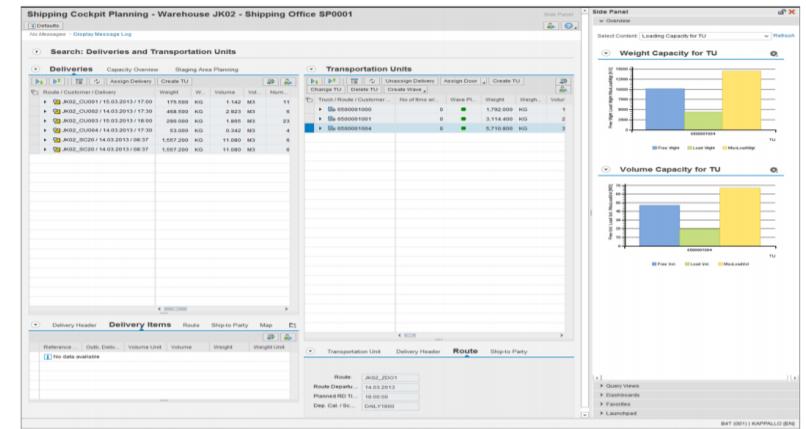
### Analytics using CDS views



### Warehouse Monitor



### Shipping Cockpit



# SAP Fiori Innovations for SAP EWM

Strong investments in simplified user experience based on SAP Fiori design

## Lean Warehouse Clerk

- In/outbound processing and goods issue with/without TU
- Lean and intuitive goods receipt and goods issue processing

Det. Number	Date / Time	Route	TU	Carrier	Ship to	Door / Staging Area	Weight	No. of Items	Task Status	Picking Status	
4500000001	Today	9:00	Berlin Wed.	6500000001	Mayer AG	RWE Wesloch	001 ▾ AD1 ▾	1.5t	51	Created	100%
4500000002	Today	9:30	Daily	6500000001	Mayer AG	RWE Wesloch	002 ▾ AD2 ▾	10t	120	Partially	66%
4500000003	Today	10:00	Berlin Wed.	6500000001	Mayer AG	RWE Wesloch	- ▾ - ▾	13t	60	Not created	
4500000004	Today	10:30	Mon. Fri.	6500000002	Muller GmbH	ALDUS	001 ▾ AD1 ▾	20t	120	Not created	
4500000005	Today	11:00	Daily	6500000002	Muller GmbH	ALDUS	001 ▾ AD1 ▾	15t	300	Not created	
4500000006	Today	11:30	Daily	6500000002	Muller GmbH	RWE Wesloch	- ▾ - ▾	1.2t	20	Not created	
4500000007	Today	12:00	Berlin Wed.	6500000003	Muller GmbH	ALDUS	002 ▾ AD2 ▾	0.8t	12	Not created	
4500000008	Today	12:30	Daily	6500000003	Schmitz AG	ALDUS	- ▾ - ▾	0.5t	15	Not created	
4500000009	Today	13:00	Berlin Wed.	6500000003	Schmitz AG	ALDUS	001 ▾ AD1 ▾	0.2t	10	Not created	
4500000010	Today	13:30	Mon. Fri.	6500000003	Schmitz AG	ALDUS	- ▾ - ▾	1t	100	Not created	
Total									198.2t		

Lean Warehouse Clerk Apps

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## Customer Returns

- Process parcels returned from customer
- Support unplanned return
- Support serial number and GTIN
- Focused for E-commerce operation

Returns Order: 250849474558      All Items  
Original Order: 2692384  
Customer Name: Mads Jensen  
Customer Address: Flakhaven 197, 2850 Ballerup  
Order Date: 2015/08/01  
Ship Date: 2015/09/20  
Scanned Items: 1/3

Product: 1173785      Batch: yellow

Basic Yellow T-Shirt  
Item code: 1173785  
EAN: 3583782655837  
Shelf Life: 1  
Size: 38/40

Quantity: 1      Scan: Scan Next Step

Quality: OK      Re-work      Not OK

Reasons for Return: Wrong Item      Wrong Color      Wrong Size      Other

Intermediate Destination: A1

Inspection Advice: Check for signs of pilling or washing.

Your Note: Add a Comment

Customer Returns Apps

## Pick by Cart

- Picking multiple orders with improved picking accuracy
- Intuitive interface to reduce training effort

Pick by Cart

WO 20002010200      Pick Steps: 0/3

Pick Products: 3/9 EA      PICKCART01      Partial Denial      Full Denial      Splitting      Difference      ...

Source Bin: T050-01-01-A      T050-...

Source Handling Unit: 80000200102      80000...

Product: Prod-S02-BM      Prod...

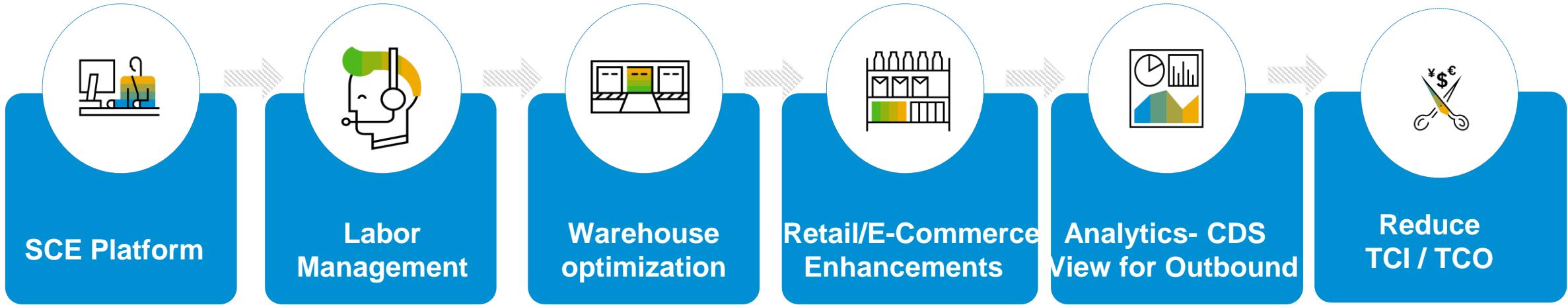
Batch Number: 2017-02      2017-02

Destination Handling Unit/Position: B-1, B-2, B-3, B-4, B-5, C-1, C-2, C-3, C-4, C-5, D-1, D-2, D-3, D-4, D-5, E-1, E-2, E-3, E-4, E-5

+ Picking      ✓ Picked      ! Picked with Exception  
Empty Position      Wait-Listed      X Unsuccessful Pick

Pick by cart Fiori App

# Recent Innovations - SAP Extended Warehouse Management 9.5



# Integration to Global Batch Tracing 3.0 (GBT)

EWM 9.5 SP1

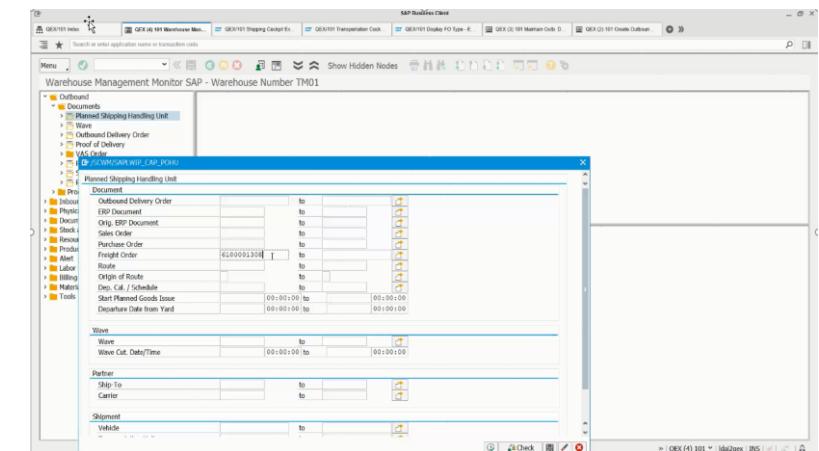
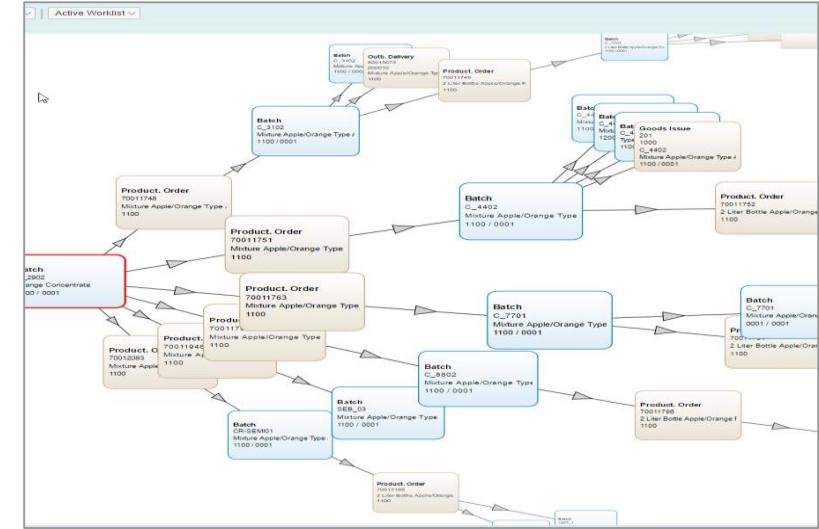


## Business Objectives

- End-to-end batch tracing over multiple process steps / locations
- EWM to receive external load & packaging plans and execute those

## Business Benefits

- Receive TM package builder information
- Receive TM load planning information
- Show loading sequence in an EWM RF loading screen

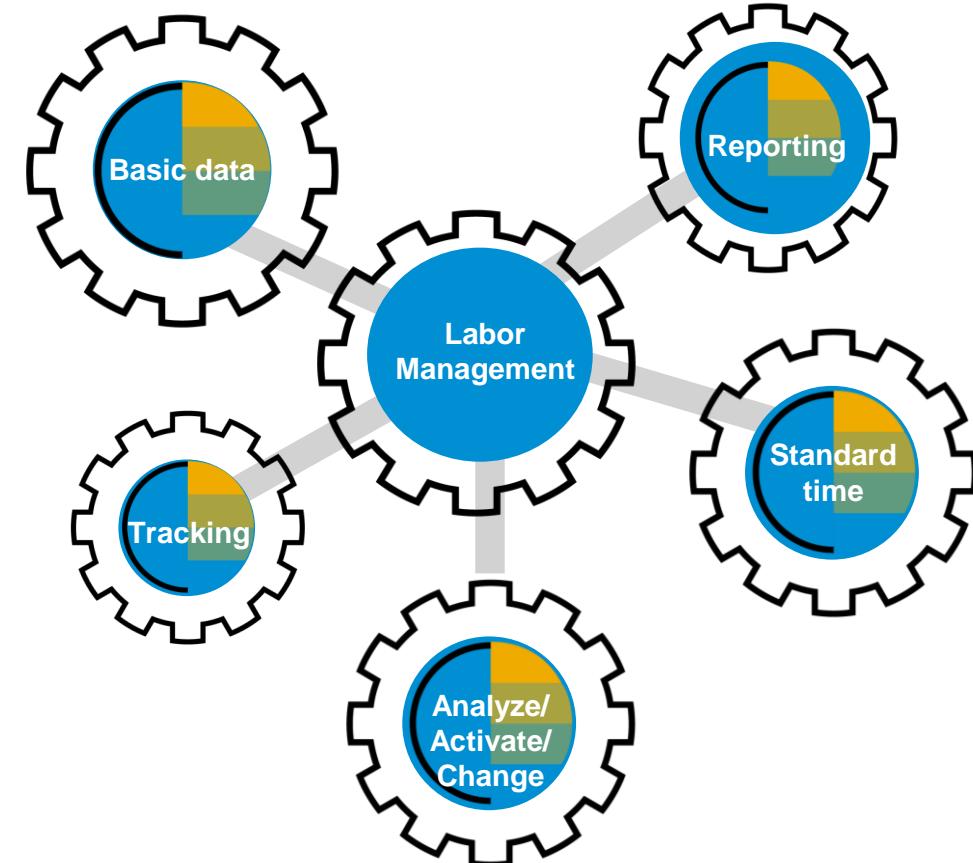


# Advanced Labor Management: Area of Enhancements



## Business Benefits

- Fair evaluation of individuals
- Cover all warehouse activities
- Evaluation of teams and shifts
- Enhanced reporting
- Flexible definition of standards



# Advanced Labor Management Enhancements

## Deep dives

Basic Data	Standard Time	Tracking	Reporting	Analyze / Change / Activate
<ul style="list-style-type: none"><li>▪ Processor<ul style="list-style-type: none"><li>- New attributes</li><li>- Upload CSV</li><li>- Maintenance in monitor</li><li>- Groups &amp; hierarchies</li></ul></li><li>▪ Shift<ul style="list-style-type: none"><li>- Shift model &amp; shift lead</li><li>- Assign processors</li><li>- Determine capacity</li><li>- Shift sequence</li></ul></li><li>▪ Time &amp; Attendance<ul style="list-style-type: none"><li>- Receive &amp; store</li><li>- Maintain &amp; view</li><li>- Upload CSV</li></ul></li><li>▪ Travel Network<ul style="list-style-type: none"><li>- Download/ upload</li><li>- Plausibility checks</li><li>- Evaluation</li></ul></li></ul>	<ul style="list-style-type: none"><li>▪ Labor Activity Code<ul style="list-style-type: none"><li>- New classification of labor</li><li>- Grouping &amp; evaluation</li><li>- Flexible assignment</li></ul></li><li>▪ Engineered Labor Standards<ul style="list-style-type: none"><li>- Based on Labor Activity code</li><li>- Using BRF+</li><li>- Business user</li></ul></li><li>▪ Travel Distance Calculation<ul style="list-style-type: none"><li>- Horizontal &amp; vertical moves</li><li>- Curves</li><li>- Loaded or empty travel</li></ul></li><li>▪ Personal Fatigue &amp; Delay<ul style="list-style-type: none"><li>- Experience</li><li>- Fatigue</li><li>- Delay caused by exceptions</li></ul></li><li>▪ Planned workload</li></ul>	<ul style="list-style-type: none"><li>▪ Track Immediately confirmed (e.g. <i>Packing activities</i>)</li><li>▪ Track RF Receive HU<ul style="list-style-type: none"><li>- From vendor</li><li>- From Production</li></ul></li><li>▪ Track Unplanned activities<ul style="list-style-type: none"><li>- RF</li><li>- Voice</li></ul></li><li>▪ Indirect work / Gap times<ul style="list-style-type: none"><li>- Using T&amp;A data</li><li>- Using shift data</li><li>- Based on RF logoff</li></ul></li><li>▪ Decouple tracking from reporting<ul style="list-style-type: none"><li>- Improve performance</li></ul></li></ul>	<ul style="list-style-type: none"><li>▪ Enhanced Executed Workload Reporting<ul style="list-style-type: none"><li>- Processor attributes</li><li>- Shift attributes</li><li>- Labor activity code data</li></ul></li><li>▪ Completion of workload records</li><li>▪ Update / re-determine missing attributes</li><li>▪ Enhance BI Extraction</li></ul>	<ul style="list-style-type: none"><li>▪ Employee complains about time calculation</li><li>▪ Supervisor analyze how duration was calculated</li><li>▪ Change &amp; Simulate<ul style="list-style-type: none"><li>- Time and Motion Engineer changes (inactive)</li><li>- Simulation of inactive rules</li><li>- Activate the rule changes</li><li>- Change historic records according to new rules</li></ul></li></ul>

# Warehouse Optimization



## Business Benefits

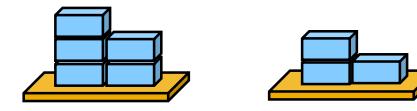
- Create planned shipping HUs (PSHUs) with an advanced palletization algorithm



## Business Benefits

- Consolidate partial quantities of products into complete quantities and free up storage space

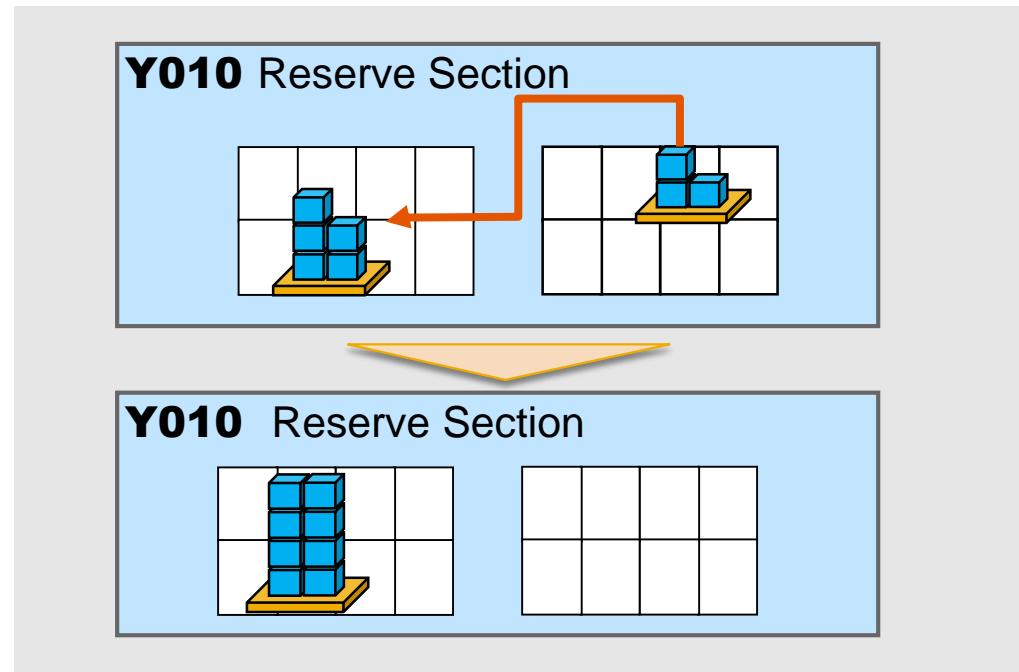
## Partial Quantities



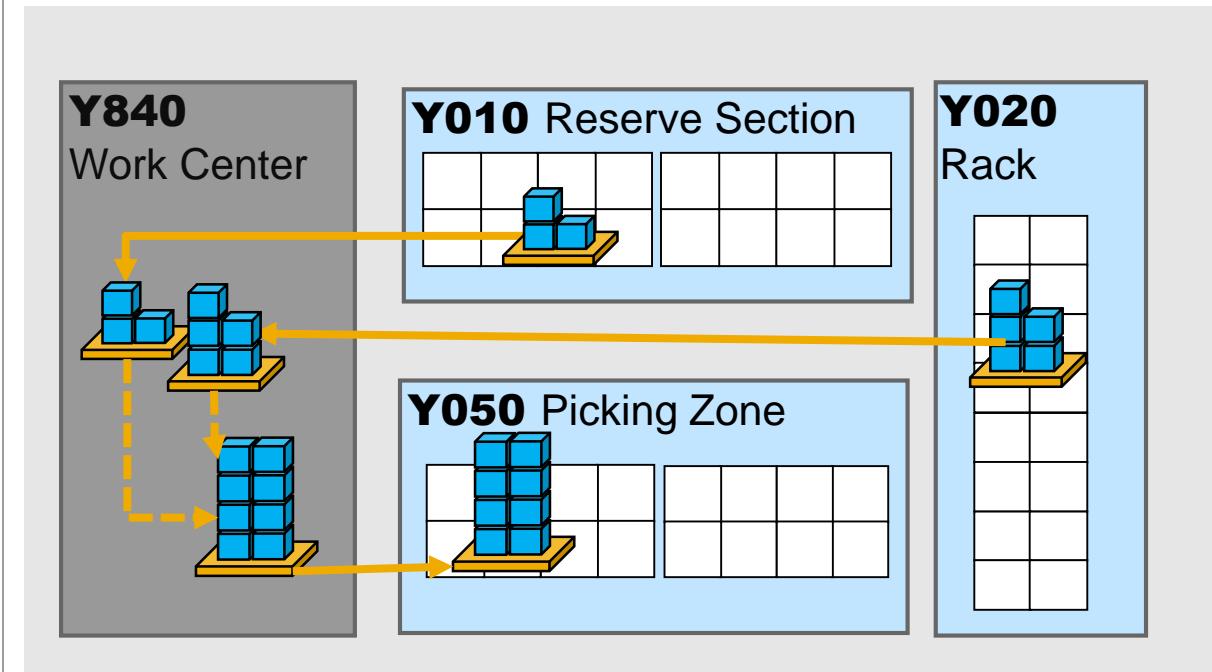
Full Pallet Quantity

# Two use cases to consolidate stock

## Consolidate on the bin

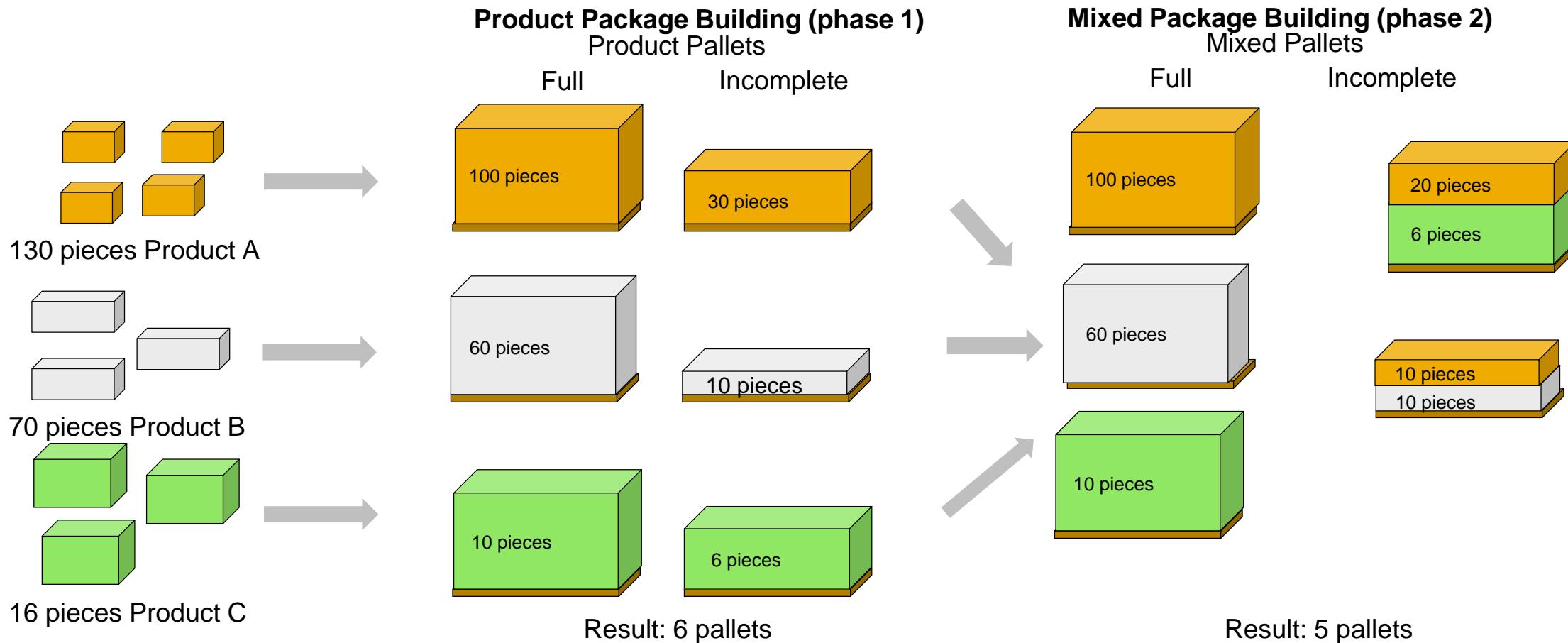


## Consolidate in a work center



# Package Building Phases as consumed by SAP TM

full / incomplete product / mixed pallets



Check note 2581421 to understand the full functionality

# Retail E-Commerce Enhancements



## Retail/E-Commerce Enhancements

- Pick by Cart
- E-commerce Return App 2.0
- Change delivery
- Order reduction

### Business Benefits

- Pick by cart app to Improve picking efficiency and reduce training efforts
- Process Sales Order quantity reductions even picking has started or finished
- Change deliveries which have been replicated to EWM to incorporate customer requirements
- Simplified and speed up return handling
- Handle unplanned returns

The image displays two SAP application screens. The left screen is titled 'Process E-Commerce Returns' and shows a return order for item 'Medium part 01'. It includes a product image of a helmet, a dropdown for quantity (set to 1), and a condition selection (set to 'New'). The right screen is titled 'WO 20002010200 Preparation Steps 24/24' and is titled 'PICKCART01'. It shows a grid of picking stations arranged in five columns (A-E) and five rows (1-5). Some stations are marked as 'Occupied'.

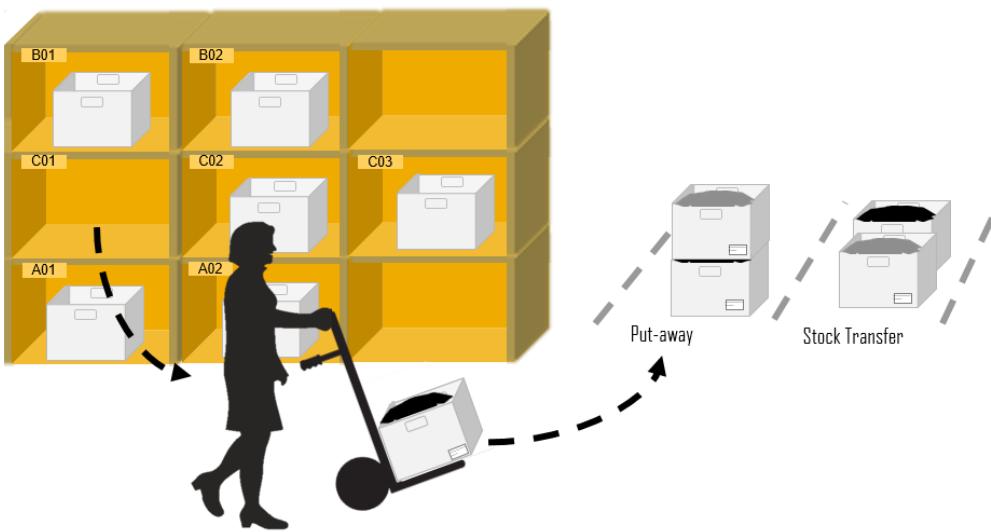
# E-Commerce Returns App 2.0 - Manage Handling Units

SAP

Process E-Commerce Returns

\*Reference Number:

Manage Bins



SAP

Process E-Commerce Returns

Intermediate Bins (4)

WC01-B01 0 items  
800000134  
CARTON\_S@QM7\_910

WC01-B02 0 items

WC01-C01 0 items  
800000135  
CARTON\_S@QM7\_910

WC01-C02 0 items

Manage Intermediate Bins

HU Removal from Intermediate Bin

To Destination Bin:

Remove HU Print HU

- Create Handling Unit
- Remove Handling Unit
- Print HU Label

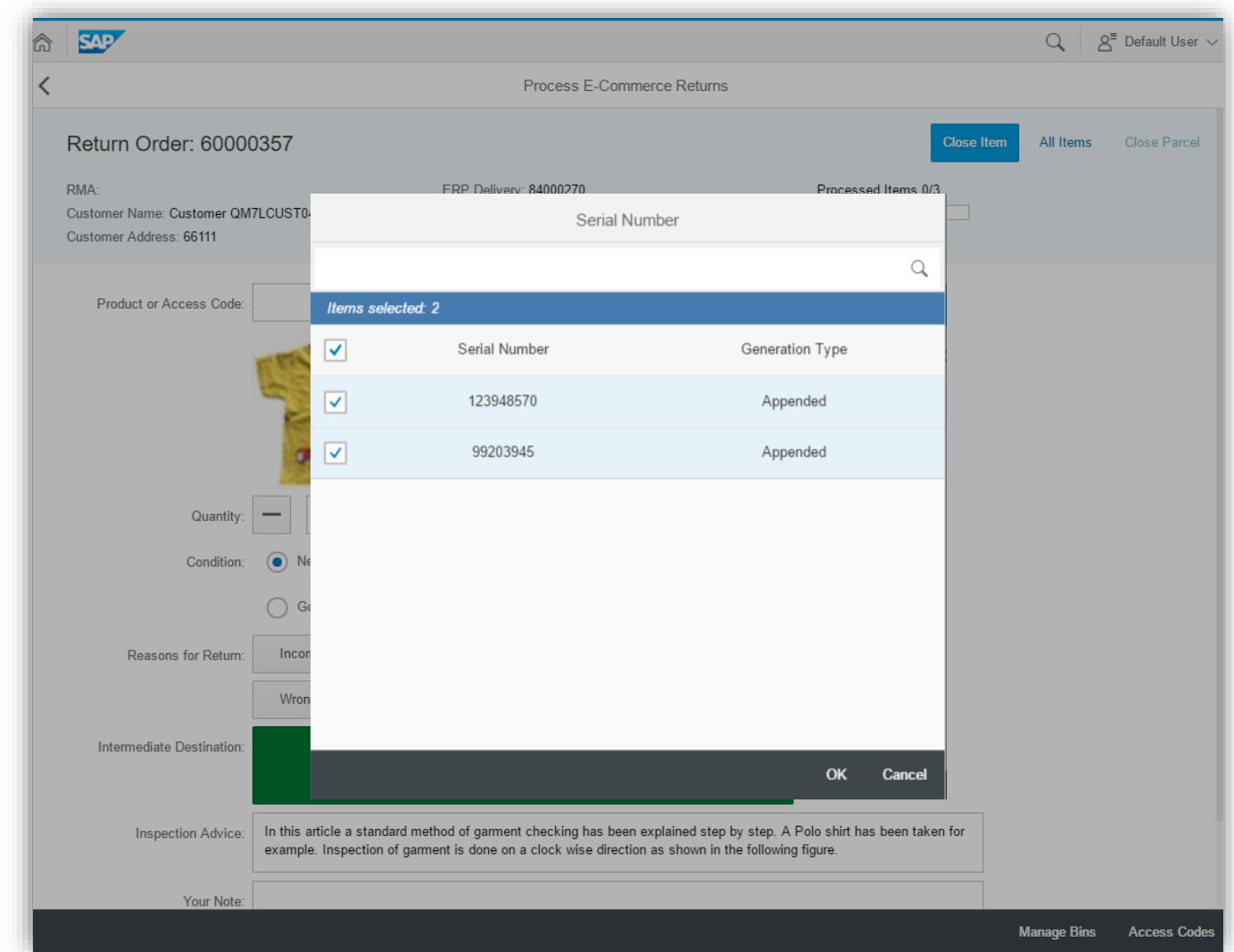
# E-Commerce Returns App 2.0 - Support Serial Number

## Approach:

- After Product input, Dialog pops-up for serial number managed products
- Supports all serial number options
  - Document
  - Warehouse
  - Inventory

## Action:

- Scan the S/N
  - Pre-determined S/N is selected in the list
  - New S/N are caught and added.



# Unplanned Returns

## Planned with SP2

### Definition of Unplanned Returns

When warehouse receives the return, no return advise documents exists in EWM.

### Motivation

- Good Performance: Each scan takes less than 1 second.
- Receive return in any warehouse  
(not necessary same as warehouse which shipped)
- Consistent UI: Same UI for planned and unplanned returns, 2-3 barcode scans return one product.
- BADI for customer specific check of reference document / reference system



# Pick by cart

## Business Objectives

- Easy to use UI to support pick cart handling, using SAP FIORI
- Supporting preparing, picking and Unloading
- Configure layout of pick cart by defining number of stacks / levels to be used
- Support exception handling

## Benefits

- Improves picking efficiency
- Reduces human errors
- Reduces the cost of training

WO 2000020807 Preparation Steps 2/3 HUs

Prepare HUs

PICKCART\_6688

Legend: Occupied (blue box with +) Empty Position (white box)

Leave Order

WO 2000020807 Pick Steps 0/9 EA

Pick Products

PICKCART\_6688

Legend: Picking (blue box with +), Picked (green checkmark icon), Picked with Exception (green exclamation mark icon), Wait-Listed (blue box with person icon), Unsuccessful Pick (red X icon)

Leave Order

# Changes to Outbound Delivery after handing over to EWM

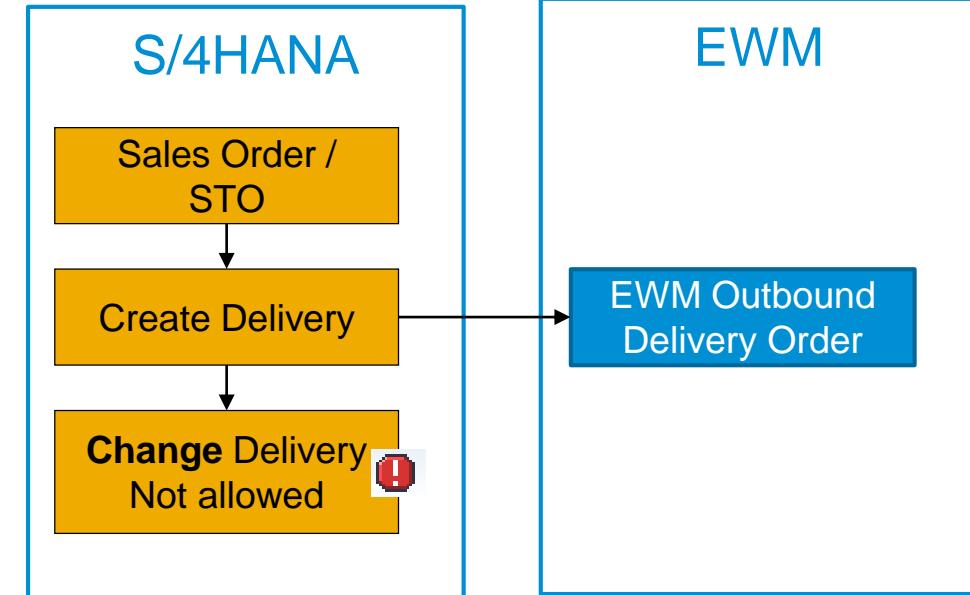
## Current Process

- Create outbound delivery and distribute to EWM early
- Change delivery in ERP not possible after handing over to EWM anymore

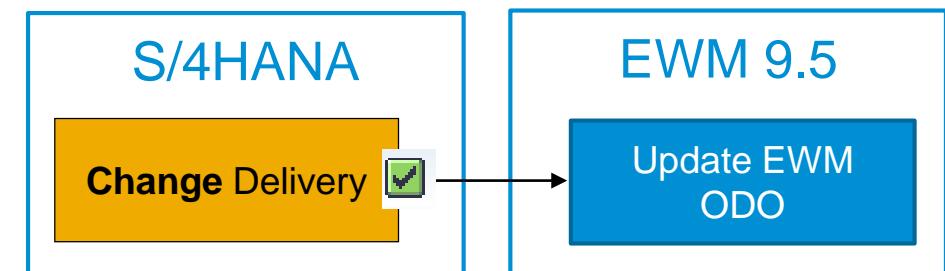
## Scope delivered

- Be able to change the LE delivery even handed over to EWM
- Offer the functionality for decentral EWM and EWM embedded in S/4HANA

current



Delivered



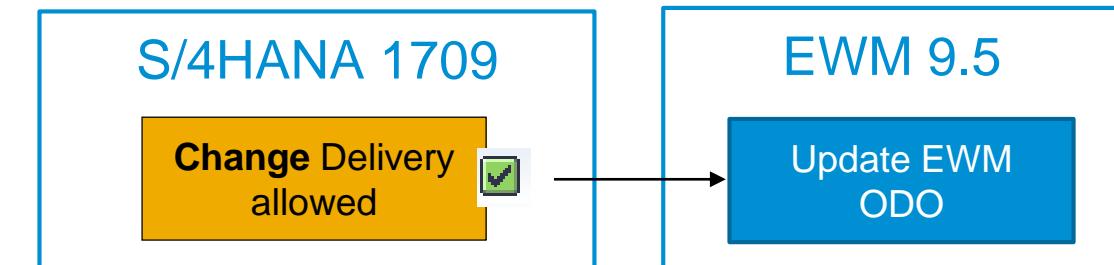
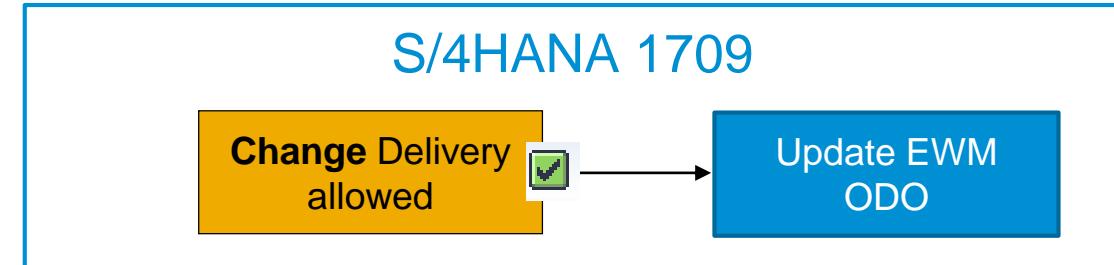
# Support Changes of the Outbound delivery

## Supported changes

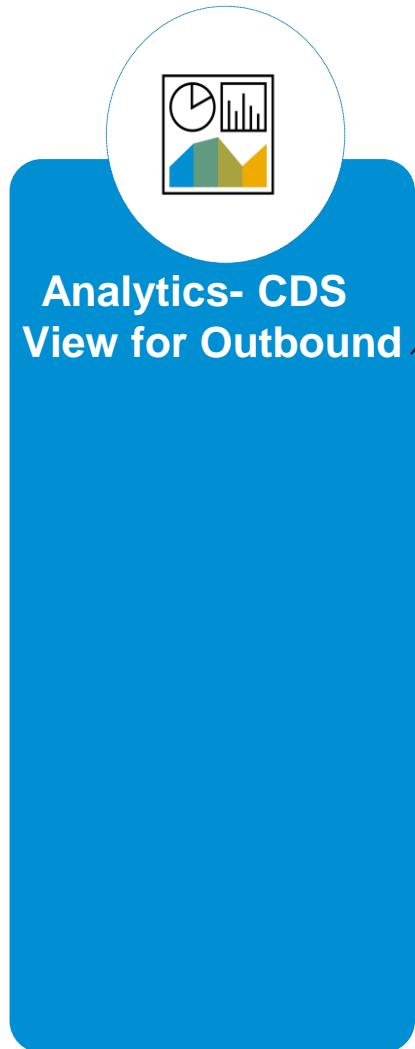
- Batch, also to add batch sub items
- Dates, also the GI date
- Texts
- Shipping type and delivery priority
- Quantity
- Route
- Means of transport / means of transport ID
- Fields that are not relevant for EWM  
(e.g. billing block on the tab financial processing)

## Not changeable:

- Delete item → instead quantity must be set to zero

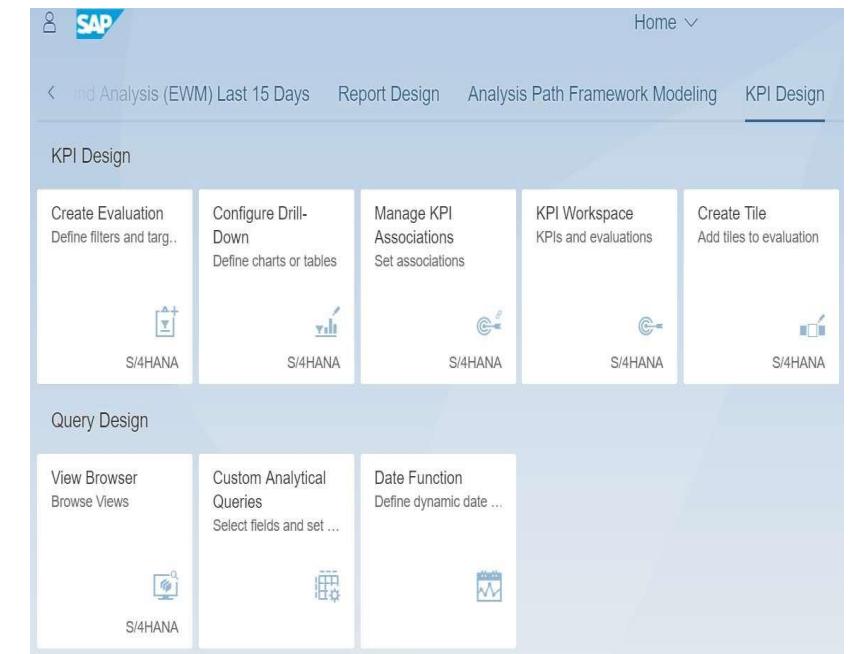
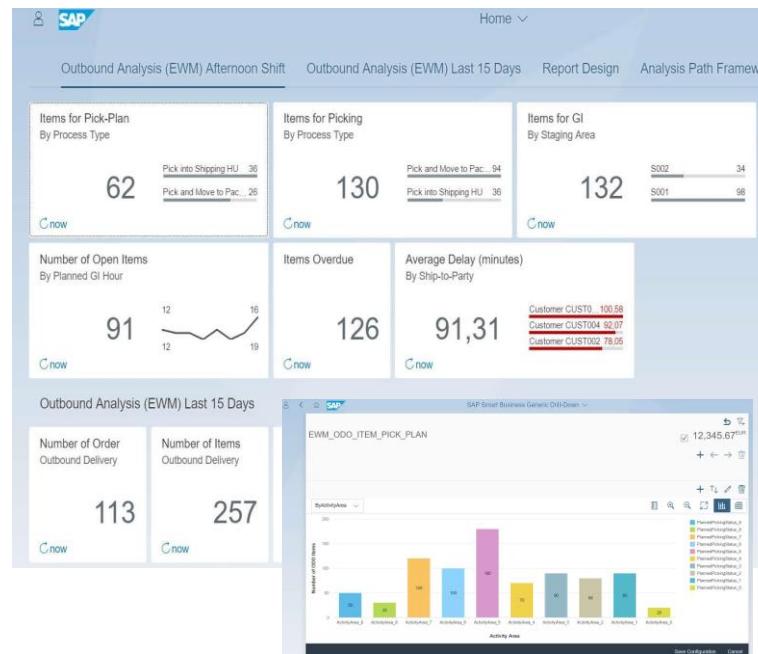


# Analytics- CDS View for Outbound



## Business Benefits

- Real-time insights into warehouse execution, based on EWM outbound delivery orders



# EWM Outbound CDS View Model

Measures

- Number of Outbound Delivery Order, Items
- Net/Gross Weight, Volume
- Average Delay minutes

Time Dimension

- Planned Good Issue Date /Time
- Actual Good Issue Date/Time
- Creation Date/Time

Status Dimension

- Picking Planning Completion
- Picking Completion
- ...
- Good Movement block
- ....

Header / Item Dimension

- Warehouse
- Product
- Activity Area
- Staging Area
- Warehouse Door
- Carrier
- Ship-to-party

Input Parameters

- Warehouse
- Planned GI Date and Time
- Display Volume/ Weight UoM

# SAP Analysis Office

Plan Only. Subject  
to Change

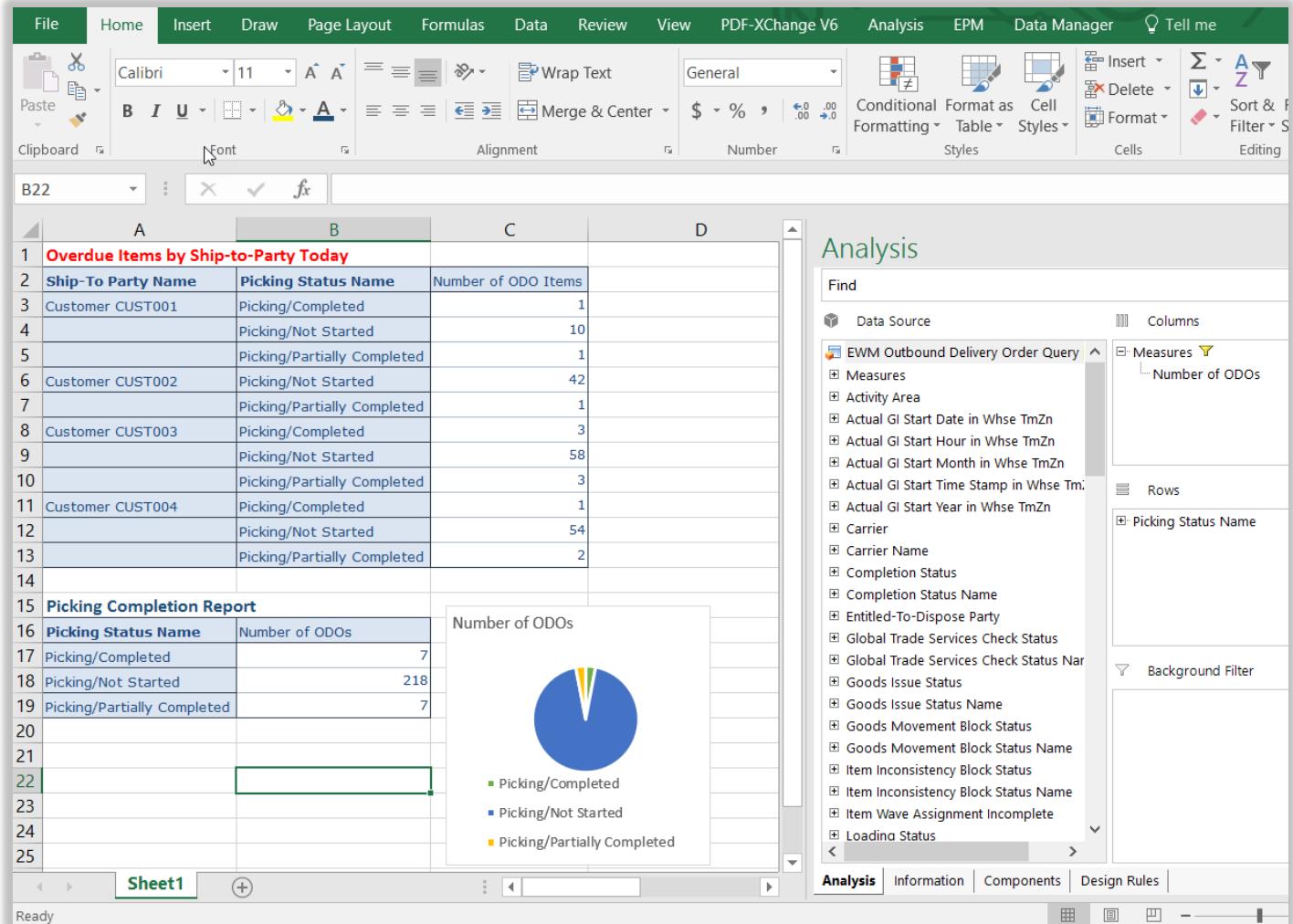


Warehouse  
Expert

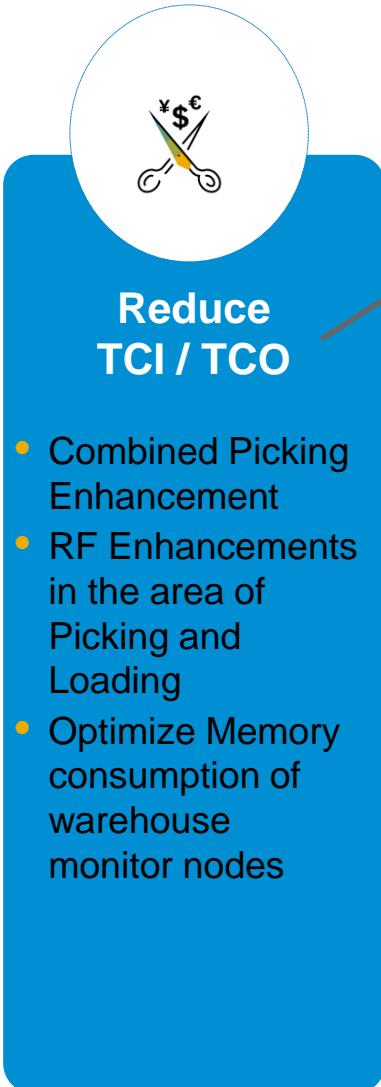
Analysis, Format, Reporting

## Feature

- Multiple Data Sources.
- Drag & Drop: any Measures and Dimension.
- Filtering, Sorting.
- Microsoft Excel functions out of box e.g. Chats, Format.



# Reduce TCI and TCO



## Business Benefits

- Reduce TCI
- Improve system robustness
- Simplification
- Better utilize resources
- Enhanced scope in QM relevant processes

# Combined Picking for Extended Warehouse Management 9.5

Background 9.4

## Customer "Jones"

- Product A
- Product B      3 pc

## Customer "Jones"

- Product B      2 pc
- Product C
- Product D

## Wave / Tasks

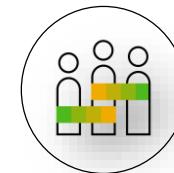
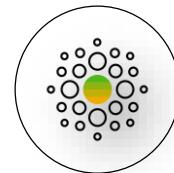
- Product A
- Product B      3 pc
- Product B      2 pc
- Product C
- Product D

## RF Picking

Product B      5 pc



Single Pick Confirmation



New capabilities 9.5

## General

- Support of exception handling: split (SPLT)
- Combined serial number catching

## Pick by Voice

- Support Pick by Voice
  - 9.4 features
  - 9.5 features

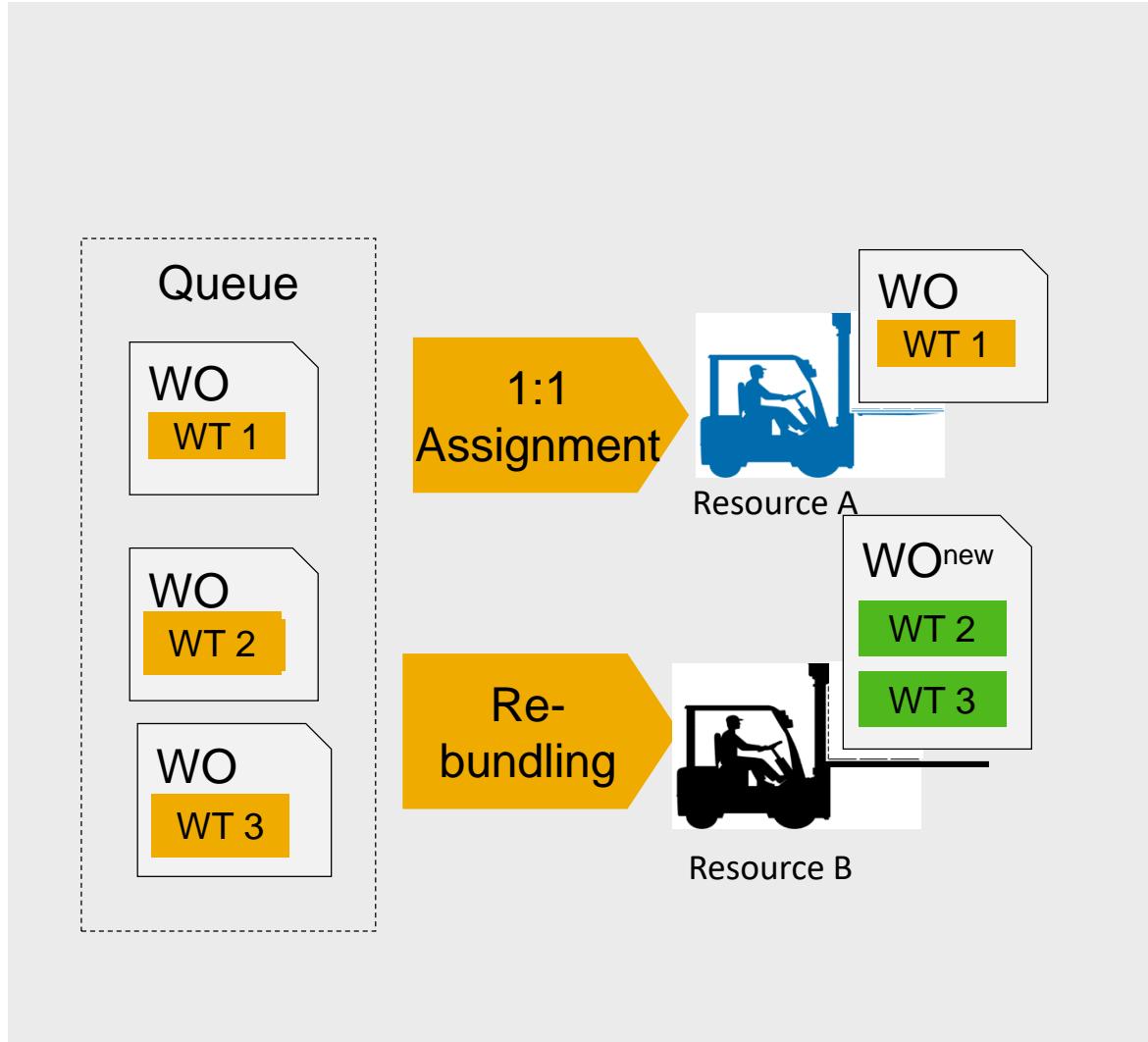
## Pick from Bulk

- Pick from HU
- Pick full HU

## Labor Management

- Planned Duration calculation for combined picking
- Warehouse monitor display of combined tasks

# Resource-Based Warehouse Order Optimization



## Business Objectives

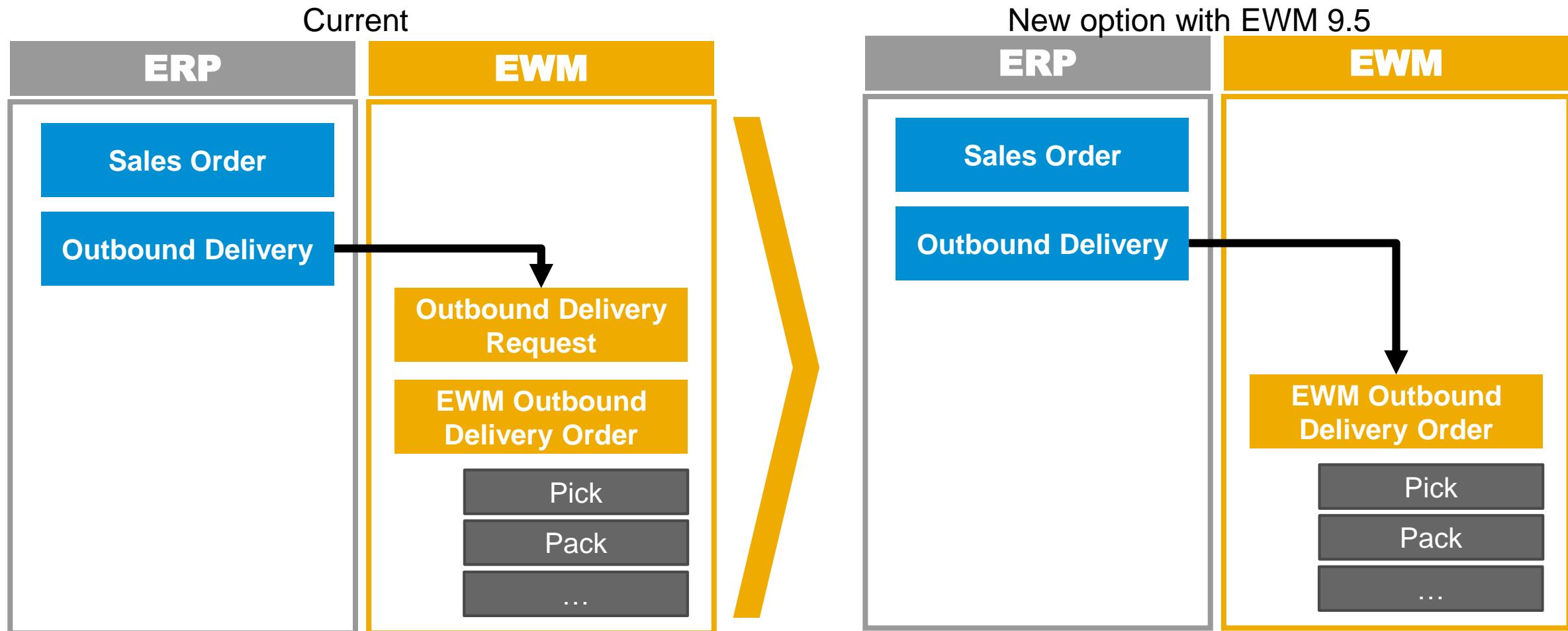
- Better utilize resource capacity
- Assign additional orders to resources which can carry more than one HU

## Delivered functionality

- BADI to check capacity of resource
- BADI to re-bundle the assigned warehouse order with an additional one

# Skip Delivery Requests

example outbound processes



# Skip Delivery Request Objects

already in use with EWM embedded in S/4HANA

## Scope

- Customizing to skip inbound delivery notification
- Customizing to skip outbound delivery request
- Customizing to skip posting change request

## Expected Benefits

- Reduce DB footprint
- simplified process
- Performance benefits

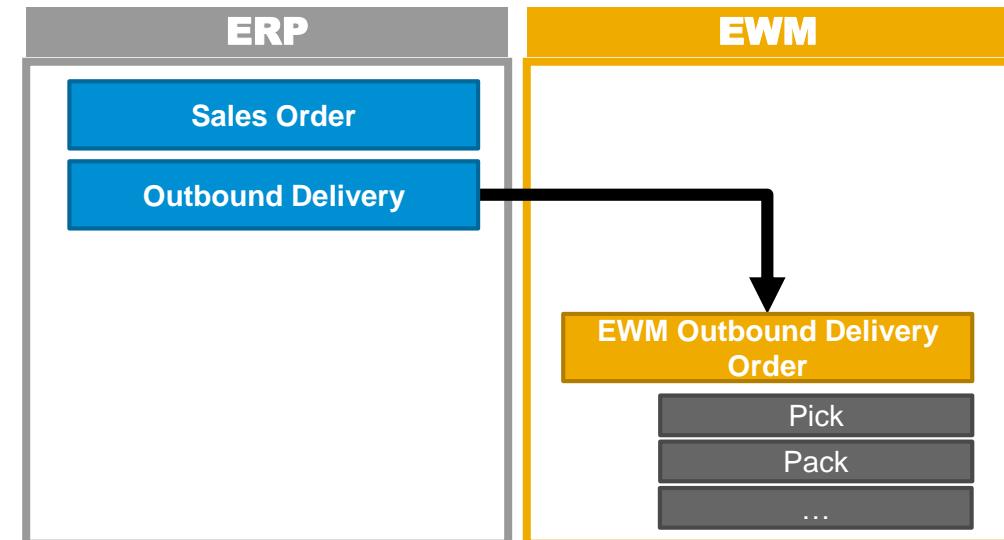
## Attention

Some functions based on request documents will no more be available, e.g.

- New split delivery in case of quantity reduction
- Delivery split in case of different route determination

Change View "Skip Request in ERP Integration":				
Doc. Cat.	Doc. Type	W...	Business System	SkipReq
ODR	OUTS	QM7S	QM7_911	<input checked="" type="checkbox"/>

New Customizing



This is the current state of planning and may be changed by SAP at any time.

# Enhancements in the area of RF picking and RF loading



**Display Source Bin during Loading**



**Show & Update Loading Sequence in EWM Monitor**



**Display Delivery Text on Pick HU Screen**



**Skip Picking HU Screen**



**Overwrite Loading Sequence via Exception**



**Improved error Messages in picking**

2516406

2525519

2524791

2524791

2516406

2519651

**SAP Note Number  
Down-ported to 9.2 and above**



# Enhancements for Partial Quantity Decisions

## EWM Inspection Screen

### Enhancements to the partial inspection screen

- Create destination HU
- Trigger follow up actions (new description for button)
- Assign serial numbers
- Capture differences by using exception codes
- Toggle layout of the partial inspection screen to view stocks assigned to inspection document

EWM 9.4

EWM Q-Inspection

Document	4000000309	Q-Inspection Inb. Del.
Product	MK-S01-QM-SERIAL	Serial Numbers & QM
Batch		Packing Qty 1 EA
Expiration		InspDoc
Status		
Qual.Inspection Documents Batch Valuation		
Items		
Quantity AUn Decision FollUpActn Dest. HU Finding Document		
1 EA		

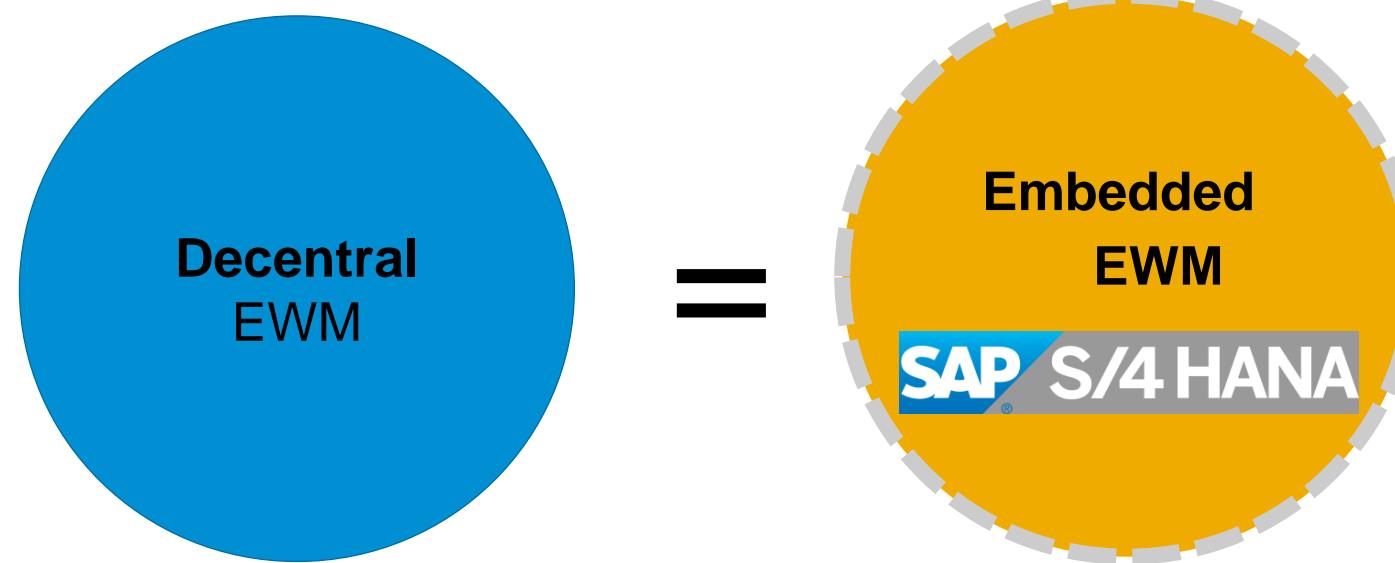
EWM 9.5

EWM Q-Inspection

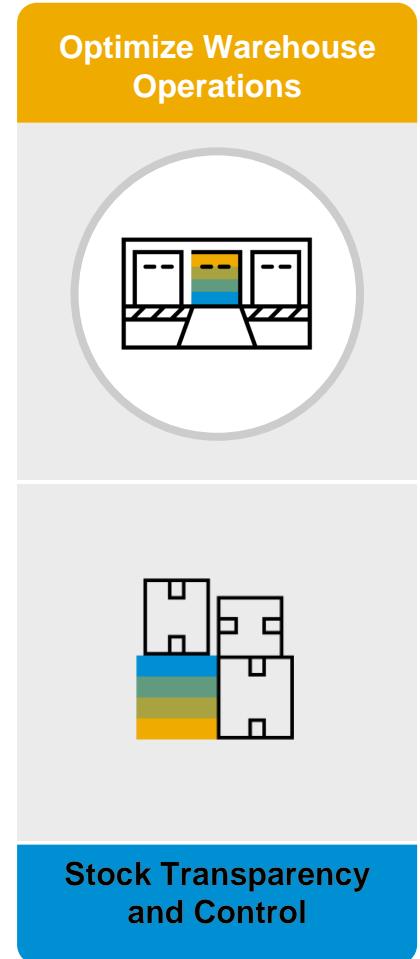
Document	4000000016	Q-Inspection Inb. Del.
Product	MK-S01-QM-SERIAL@QEX_101	Batch Managed
Batch		Packing Qty 1 EA
Expiration		Exception Code <input checked="" type="checkbox"/> No Diff.
InspDoc		
Status		
Qual.Inspection Documents Batch Valuation		
Items		
Quantity AUn Decision FollUpActn Dest. HU Finding Document		
1 EA		

# SAP S/4HANA Supply Chain for Extended Warehouse Management

Classical EWM and EWM embedded in S/4HANA are almost identical



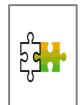
- ✓ Identical common core
- ✓ Adapter layer to integrate into S/4HANA



# SAP S/4HANA Supply Chain for Extended Warehouse Management



De-central EWM (integrated to SAP ERP or S/4-On-Premise) is planned to be a long-term valid deployment option for EWM for good reasons (e.g. regional EWM systems, risk mitigation, specific planned down-times, scale-out for large DCs , multi-ERP connected; different release cycles; proximity to warehouse (MFS); ..)



De-central EWM and central S4-EWM are planned to share a common Core of Warehouse Management Functions.  
This common Core is planned to evolve over time with new functions in both EWM options.



De-central EWM and central S4-EWM are planned to have different technical integration features with SAP ERP, but identical integration with other SAP systems (e.g. GTS, TM, ..)



De-central EWM and central S4-EWM are planned to cover the same business scenarios & processes with only minor exceptions , e.g. central EWM can only integrate with local ERP client , no multi ERP client integration will be possible as required in some LSP scenarios

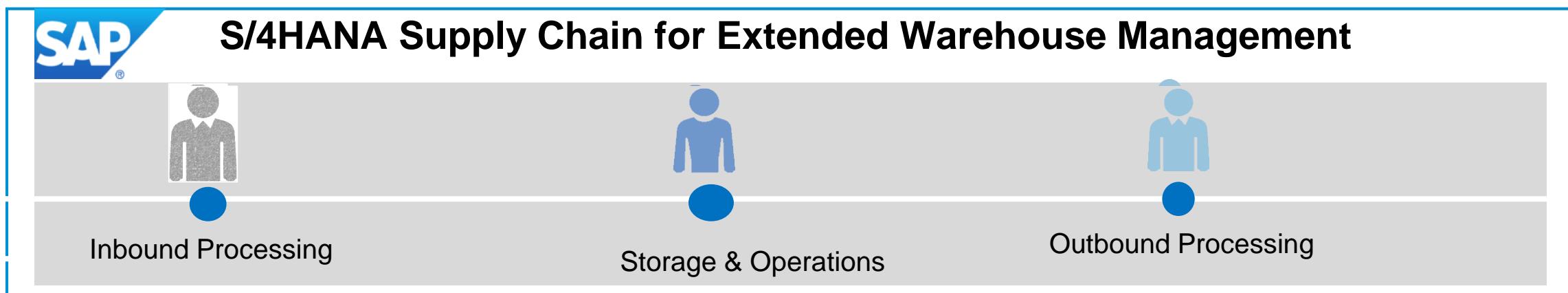
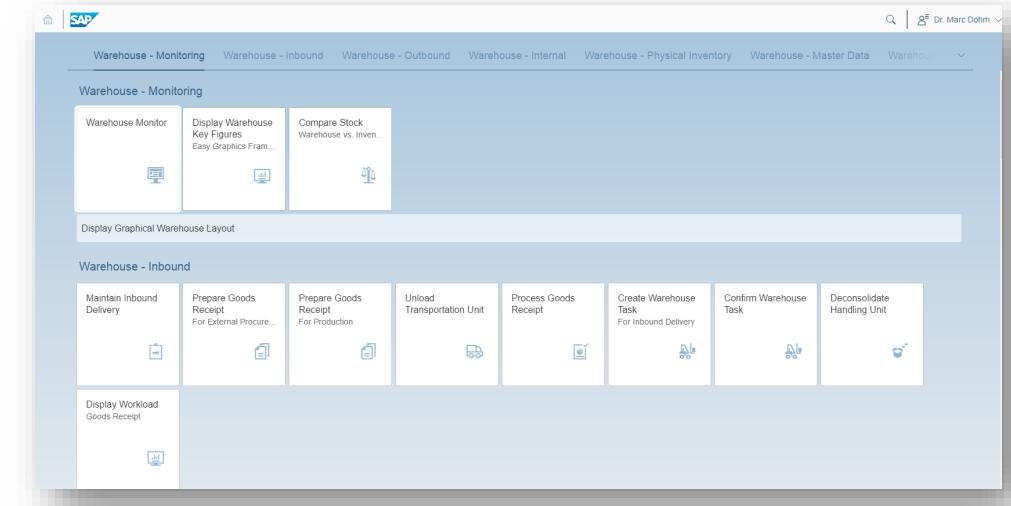


# SAP S/4HANA Supply Chain for Extended Warehouse Management

End-to-end processes

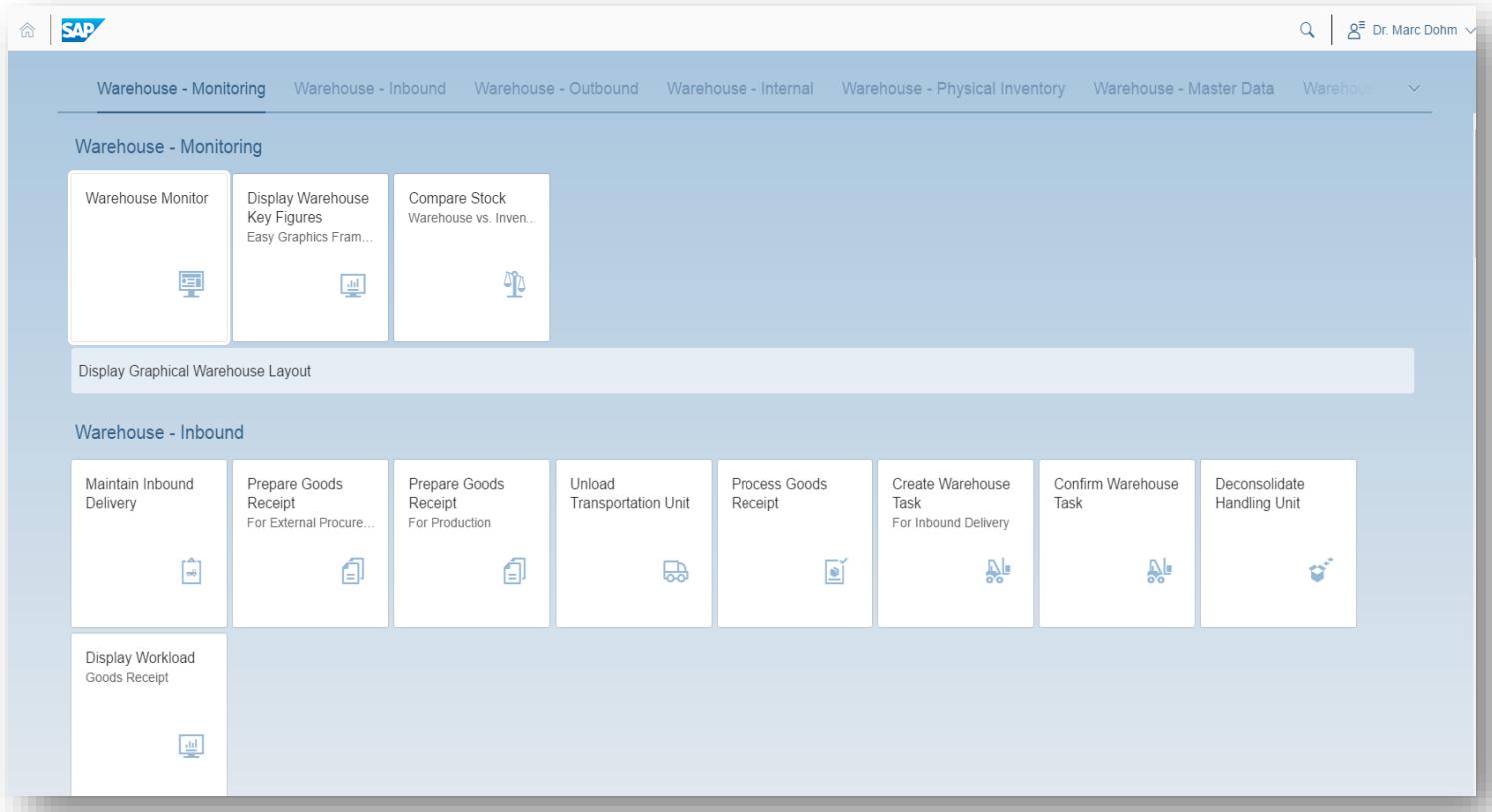
**Extended Warehouse Management is now embedded in SAP S/4HANA**

- Additional deployment option for EWM: based on feature scope contained in SAP EWM 9.4 and EWM 9.5
- Provide user interface within SAP S/4HANA
- Lean Processes with Less Business Documents
- Working with real-time embedded analytics



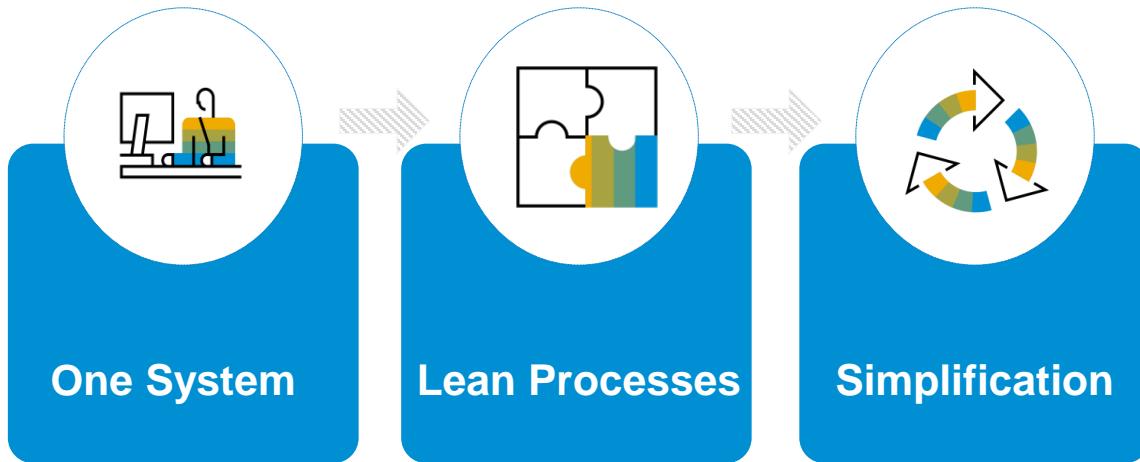
# Innovation: Enhanced User Experience with SAP S/4HANA

## User Roles and Enhanced "Look and Feel"

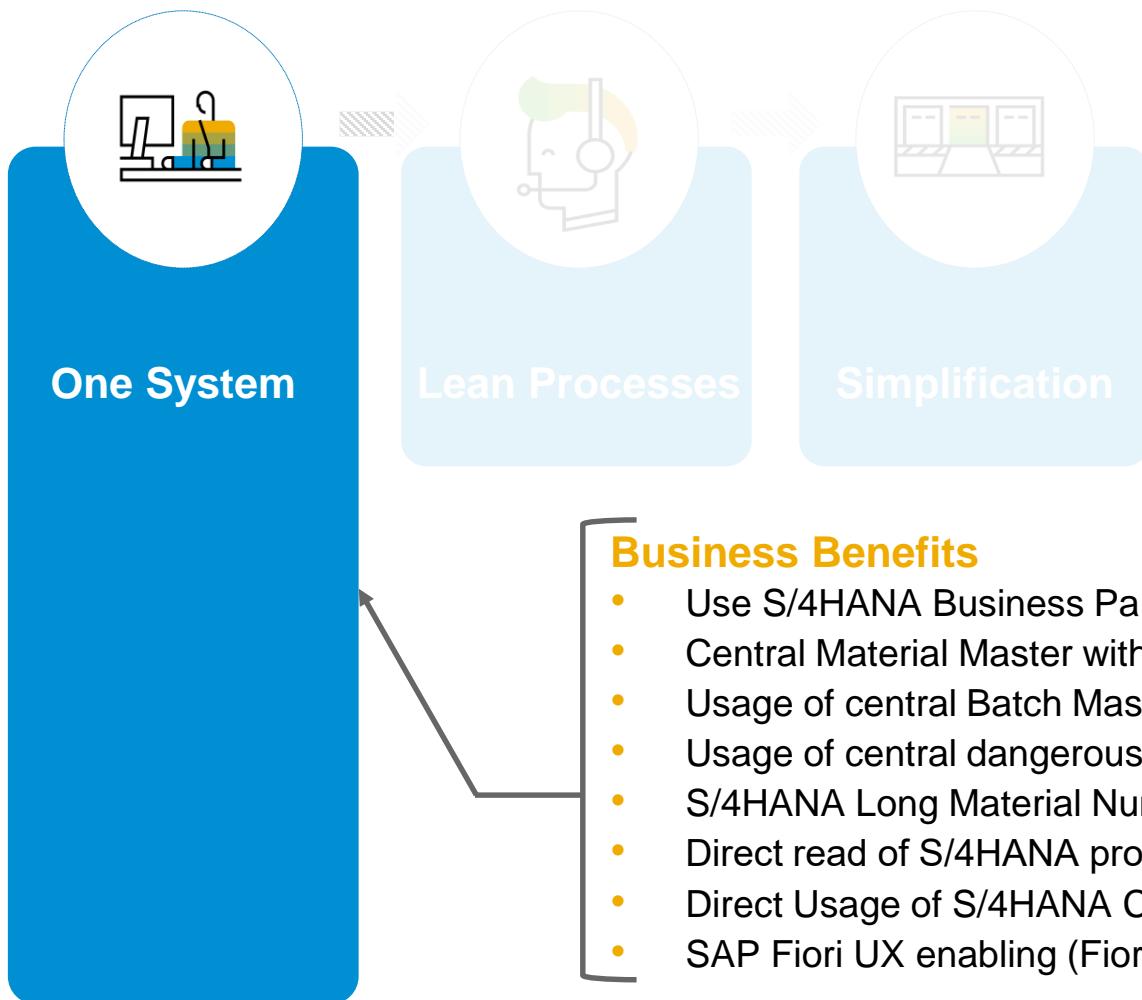


- Fiori Launchpad (FLP) as single point of access for all applications
- Unified user experience across all UI technologies
- EWM transactions adapted to fresh, new look and feel
- EWM end-user transactions adapted to new Belize theme

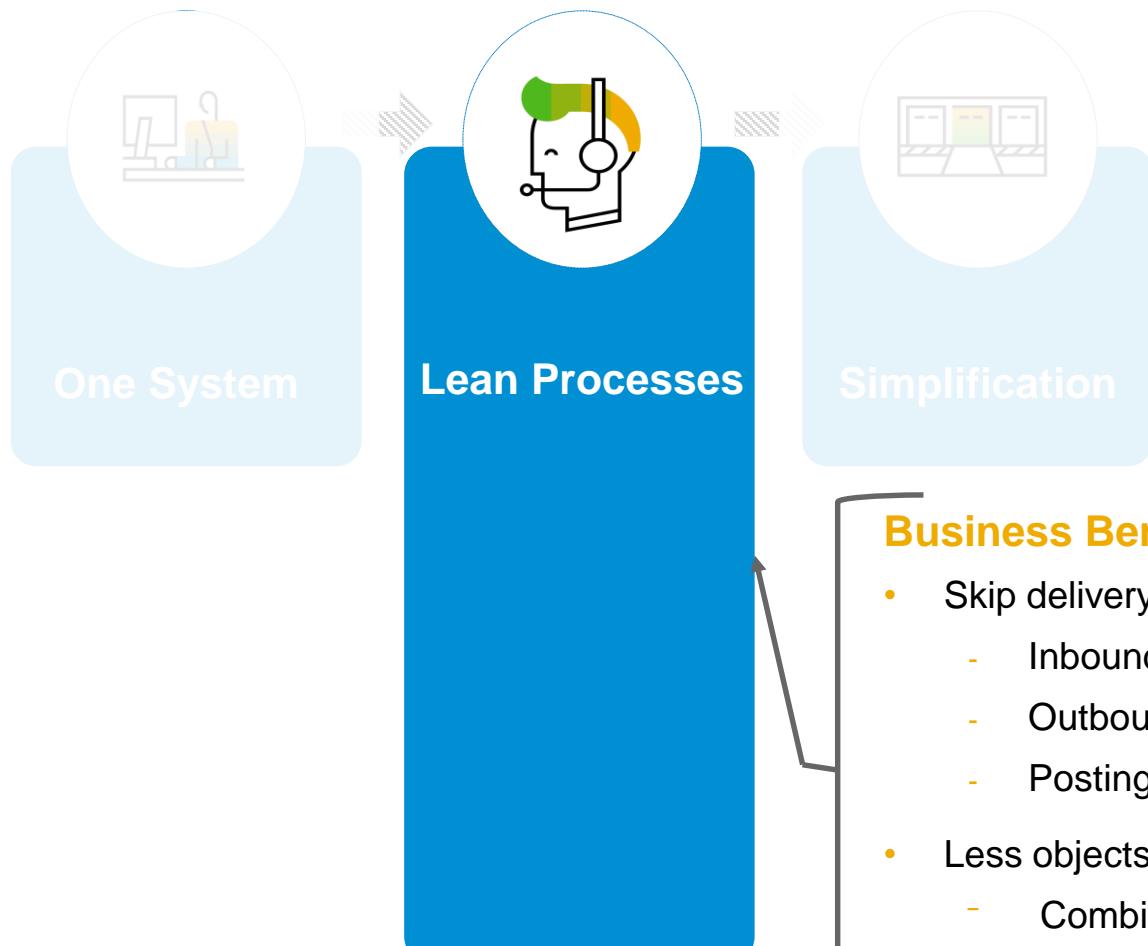
# SAP S/4HANA Supply Chain for EWM 1610 – Overview



# SAP S/4HANA Supply Chain for EWM 1610 – Overview



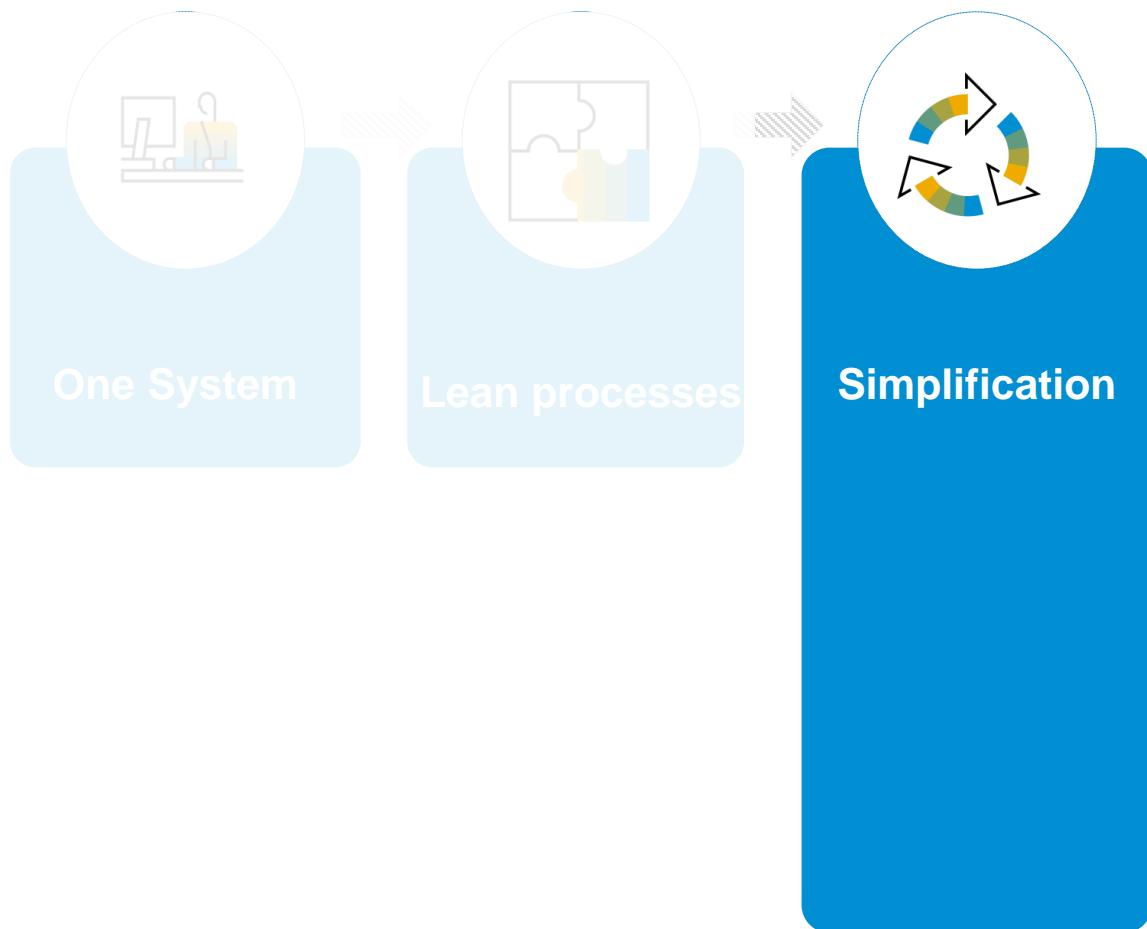
# SAP S/4HANA Supply Chain for EWM 1610 – Overview



## Business Benefits

- Skip delivery request objects for
  - Inbound delivery notification
  - Outbound delivery request
  - Posting change request
- Less objects for Quality management processes
  - Combining inspection rule and material master set-up
  - QM inspection lot as single object
- Stop using EGR (expected goods receipt)

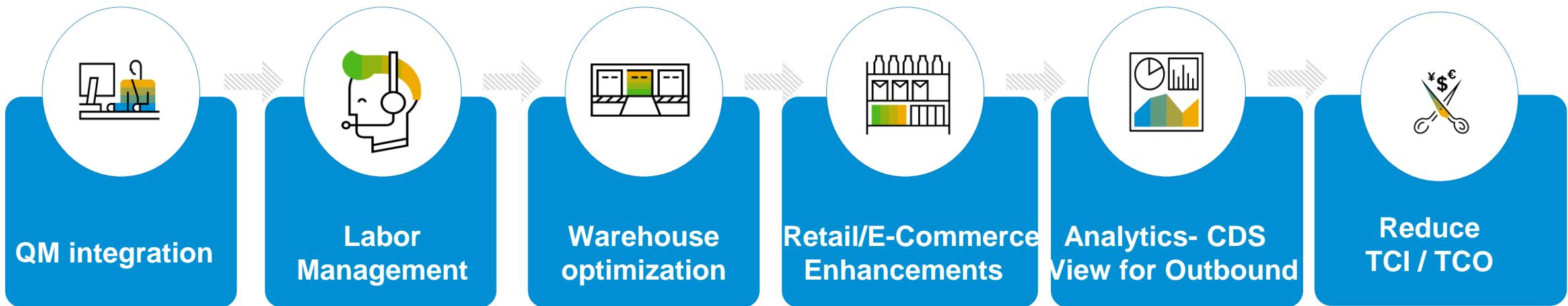
# SAP S/4HANA Supply Chain for EWM 1610 – Overview



## Business Benefits

- Disable 'Transportation Management in EWM' (aka 'FOM')
- Replace UIs based on MS Silverlight with SAP UI5 Technology
- Disable Labor Demand Planning in first release
- Disable SCM Routing guide

# SAP S/4HANA Supply Chain for EWM 1709 – Overview



# SAP S/4HANA Supply Chain for EWM 1709 – Overview



## Business Benefits

- Group goods that need to be inspected into one single inspection lot based on certain criteria
- Perform returns inspections when receiving customer returns and supplier
- Inspect products at periodic intervals for selected batch materials
- inspect externally procured goods before posting the goods receipt
- Plan and create inspections for internally produced goods before posting the goods receipt from production
- Block the receipt of goods from a vendor or for a certain product from a vendor for quality reasons
- Perform unplanned inspections not related to an inbound or outbound process for stock
- Record inspection results and usage decisions for the partial quantities of an inspection lot

# SAP Connected Warehousing

Comprehensive built in automation and validation for routing, putaway, picking, pallet building, packing

## Connected Warehousing

**DATALOGIC**™ **Honeywell**

**LXE**

**MOTOROLA**

**PSION TEKLOGIX**

**topsystem**  
OPTIMIZING PROCESSES

**VUZIX**

**Vocollect**

**EPSON**  
EXCEED YOUR VISION

**SCHAEFER**

**gebhardt**

**DEMATIC**

**swisslog**

**VANDERLANDE**

**TGW**

**SIEMENS**

**viasstore**  
systems

**KNAPP**

**egemin**  
AUTOMATION

**Westfalia** 



## Connected Devices

- Mobile Devices
- RFID Scanners
- Voice Recognition Headsets
- Augmented Reality
- Pagers & Phones
- Label Printers
- Scales

## Connected Automation

- Conveyors
- Lifts
- Robots
- Picking Systems
- Manufacturing Execution Systems

# SAP Connected Warehousing

Efficiency and material flow optimization with connected Robots / Automated Guided Vehicles

## SAP Extended Warehouse Management (SAP EWM)



### Automated Guided Vehicles

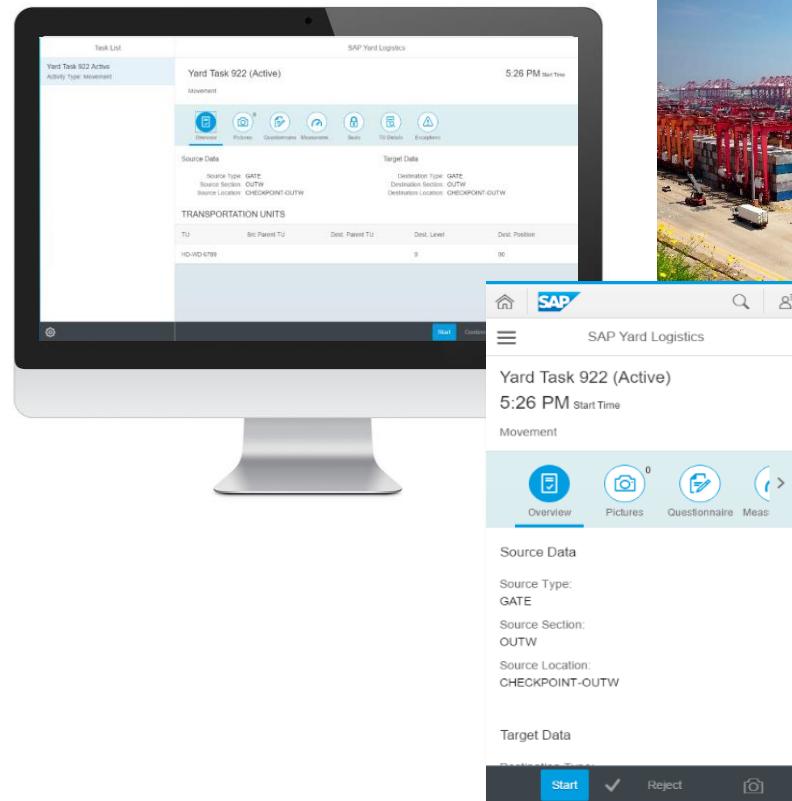
#### Key Benefits

- Drastically Reduces Transport Time
- Improves Warehouse Throughput by 30%
- Improves Picker Productivity by 40%
- Project-based implementation using SAP EWM
- Material Flow System (MFS) or web service calls

# Complimentary solution – SAP Yard Logistics

## Simplified and Streamlined Truck, Container, and Rail Yard Management

- Planning, execution and settlement of yard tasks
- Visual yard layout
- Check-in and check-out, with full integration into backend processes
- Mobile access for eased decision making
- **Integrated with SAP EWM and SAP TM for a logistics fulfilment platform**



 **Consistency and Efficiency**

 **Processing Time**

- ✓ **Yard Visibility**
- ✓ **Maintenance/Wash Bays**
- ✓ **Carrier Scheduling**
- ✓ **Gate-In Processes**
- ✓ **Yard Jockey**
- ✓ **Dock Doors**
- ✓ **Storage and Parking**

## Customer Benefits and Value



# The best are leading the way with SAP EWM



**30 %** warehouse space reduced



**Near zero** customer-complaint rate



Superior inventory accuracy



**63.6 %** Improved warehouse efficiency



**50 %** savings through process simplification



Increased speed and significantly reduced picking times



**28-40 %** increase in picking efficiency going from RF to Pick-by-Voice



**20 warehouses** live using the same template



SAP EWM directly controls programmable logic controllers (PLCs)

# Tangible Business Benefits

Through Improved Transparency with SAP EWM

“

”

**“The SAP Extended Warehouse Management application has provided a firm foundation for Ferrero’s streamlined logistics and fulfillment processes during a time of rapid corporate growth.”**

Enzo Bertolini, Group CIO, Ferrero



“

”

**“SAP EWM and SAP HANA® together have helped KAESER COMPRESSORS significantly decrease delivery lead time, thus increasing customer satisfaction”**

Falko Lameter, CIO, KAESER COMPRESSORS Group



“

”

**Liverpool chose SAP EWM because of its stability, data and processes reliability, and deep integration with other SAP solutions**

Jorge L. Echeverria, Director, Logistics



# How do our customers transform their business with SAP EWM

## Evobus

Automotive Industry, Germany

- Warehouse orders that are transmitted directly to the picking device
- Web-based and user-friendly integration of mobile devices
- End-to-end infrastructure, including management of automated small-parts storage area
- Fully integrated components (wireless network, location network connection, server services)



## Komplett

E-commerce, Norway

- RF picking used in the first months of operation
- Pick-by-Voice project going from RF increased picking efficiency between 28 to 40%
- Bin-labels with both color and directional(left mid right)
- verification codes
- Warehouse order grouped by crates and bags
- Optimized pick path
- Full overview and interaction of staging, doors, picking, loading, GI and Yard checkpoints, in the Warehouse Cockpit



## Hilti

Building Material, Germany

- Integration of material flow system SAP Material Flow System (MFS)
- Quality inspection management integrated in SAP ERP
- Serial number handling
- Batch management
- Dangerous goods handling
- Country of origin
- Integration of production processes



## Lotte Mart

Retail, Korea

- SAP EWM with direct integration to on-line mall system, WCS, TMS for outbound delivery, and inbound delivery integration with SAP IS Retail ERP.
- SAP PO for integration between SAP and Non-SAP systems.
- MHEs : KNAPP ORS (GTP system) including OSR ASRS, Picking Station, parcel sorter and sequence buffer, Auto Labeler, Local DPS (Mini-load DPS (Automatic replenishment), manual replenishment DPS )



# Heilan Home Innovates with SAP® EWM and SAP HANA®

## SAP EWM in Retail



**Company**  
Heilan Home Co., Ltd.

**Headquarters**  
Jiangyin City, Jiangsu, China

**Industry**  
Industrial retail - fashion

**Products and Services**  
Branded Garments and business  
wears

**Employees**  
>60,000

**Revenue**  
Around 16 billion RMB

**Web Site**  
<http://www.heilanhome.com/>

**Partner**  
IBM China  
Safe Guarding by SAP Active  
Global Support

### Objectives

- To build up integrated information platform to fully support business operations
- To realize management strategies, accelerate business expansion, achieve excellent business operations and support decision making by using sophisticated SAP ERP and SCE solutions
- To integrate with various intelligent warehouse equipment, e.g. AS/RS, conveyors, sorters and RF terminals etc.
- To improve warehouse operation efficiency and capability
- To accelerate business innovations to further increase supply chain execution efficiency by leveraging advantages of SAP HANA

### Why SAP

- Deep, seamless, real-time process integration among SAP EWM, ERP and MAP, covering all aspects of business operations
- Seamless integration with automated warehousing systems by utilization of warehousing high tech
- Embedded automatic process within SAP EWM, integrated and extendable supply chain execution platform
- Excellent system performance under very high workload

### Rewards

- All business processes covered, high efficiency, real-time monitoring, warehouse operation management greatly improved
- Efficiency and productivity of the warehouse highly increased
- Faster response to the market , better collaboration among retail stores, warehouses, departments and vendors
- Optimized picking logic to archive higher one-time picking accuracy
- Better stock control and lower business risks
- Greatly improved system performance and much faster response time with SAP HANA

### Future Plan

- Deep and extensive usage of RFID
- Full Supply Chain optimization for intelligent warehouse management and transportation logistics

**"SAP EWM on SAP HANA completely solved the bottle-neck problems of system performance. Inbound and outbound delivery efficiency has been greatly improved. In the future, we will leverage the whole SAP Supply Chain Execution Platform, including Transportation Management, to fasten our business growth and innovations."**

Xiaofan Zhang, Director of Strategic Information Center, Heilan Home Co., Ltd.

**63.6%**

Improved warehouse efficiency

**500%**

Biggest performance improvements  
for analytics and reporting

**60%**

Average performance improvements  
for analytics and reporting

**60% Shipping - 90% Storage**

Coverage of warehousing automation

**40%**

Reduced over time work

From **80%** to **10%**

Reduced CPU load

### Project Facts:

- **EWM version:** EWM9.1 on HANA
- **Project overview:**
  - Sep., 2013 – Heilan Home warehouse go live with EWM;
  - 2015 – Eichitoo and Betasale warehouses go live with EWM on HANA;
  - Feb., 2016 – Heilan Home warehouse go live with EWM on HANA.
- **Highlights:**
  - Super big national DC: 800K m<sup>2</sup>
  - Different kinds of automated equipment integration
  - Very high business transactions: 700K delivery items/day in peak time; 340K delivery items/day in average

# Servimed: Automating and Optimizing Logistical Processes

## SAP EWM in Pharma Distribution



**Company**  
Servimed Comercial LTDA

**Headquarters**  
Bauru (São Paulo), Brazil

**Industry**  
Wholesale distribution

**Products and Services**  
Distributor of products for pharmacies, drugstores, perfumeries, supermarkets, private hospitals, home care, clinics, and medical and surgical centers

**Employees**  
1,850

**Web Site**  
[www.servimed.com.br](http://www.servimed.com.br)

**Partner**  
SAP® Consulting

### Objectives

- Support logistical processes in the new distribution center
- Introduce a system that can be rolled out to all warehouses in all distribution centers
- Implement a solution that requires minimum customization
- Automate and optimize logistical processes

**400%**

Productivity boost with split master orders

### Why SAP

- SAP® Extended Warehouse Management (SAP EWM) application for flexible, automated support in processing goods movement and managing warehouse stock
- Core systems already running on SAP software

### Resolution

- Deployed SAP EWM
- Implemented the application quickly using the SAP EWM rapid-deployment solution
- Integrated SAP EWM with the existing SAP ERP application
- Partnered with SAP Consulting

### Benefits

- Process optimization and automation
- Information reliability
- Data track-and-trace capabilities
- Ability to support growth and integrate all warehouses

**Transparency**

With track-and-trace capability for data and processes

**6 months**

To implement using the SAP EWM rapid-deployment solution

**At least 40%**

Reduction in implementation effort using the rapid-deployment solution

"SAP EWM has enabled better warehouse management and enhanced efficiency in our new distribution center. This facilitates company growth, allowing us to unify technology across all warehouses."

Claudio Moura, CIO, Servimed Comercial LTDA

# Selected Extended Warehouse Mgmt. Customers

Across Multiple Market Segments, Industries and Geographies

## Automotive



## Logistics



## IM&C/Utility



## Retail/ CP



## Hi-Tech



## Mill/Mining/Chemical



# SAP Extended Warehouse Management – Customer success stories



[Gebr. Heinemann](#)



[Ernsting's Family](#)



[Sick AG](#)

# Value to You



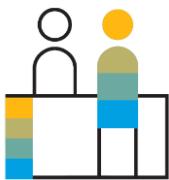
## REDUCED WAREHOUSE COST

*Efficient usage of resources towards better service - equipment, space, time, people.*



## IMPROVE SERVICE

*Support of modern value added services  
Reduced order cycle times*



## IMPROVE PRODUCTIVITY AND ACCURACY

*Standardization of processes and procedures  
Reduced error rate and higher inventory accuracy*



## FLEXIBILITY AND SCALABILITY

*Process flexibility and ability to handle large volumes  
Seamless integration to automation*



**SAP EWM enables you to improve the efficiency of your warehouses, optimize your workflows, and ultimately, strengthen your position in the market**

# Implementation Accelerators



# High flexibility and adaptability

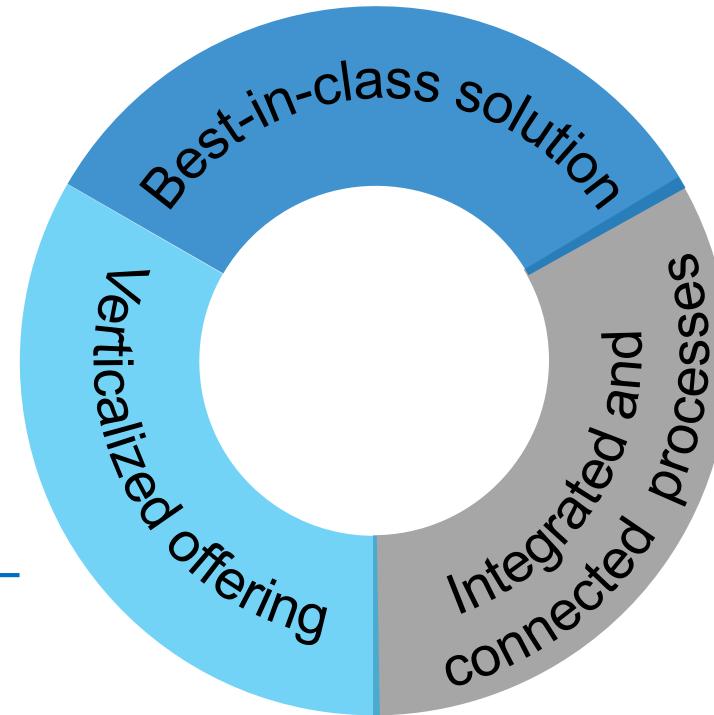
Tailor SAP EWM to your specific needs

## Personalization

- Role-based menus
- User-specific reports
- Role-based user interfaces
- Multilingual support

## Customer-specific extension

- Documented interfaces
- Modification-free extensions
- Upgrade security or upgrade-secure interfaces



## Configuration

- Warehouse layout
- Industry-specific warehouse processes
- Strategies (picking, putaway, and so on)

## Service-oriented architecture

- Development of composite applications
- Integration to legacy systems

## Flexible Deployment Option

- Deploy as on-premise or hosted cloud option(HEC)
- On-premise- decentral or embedded in S/4 HANA

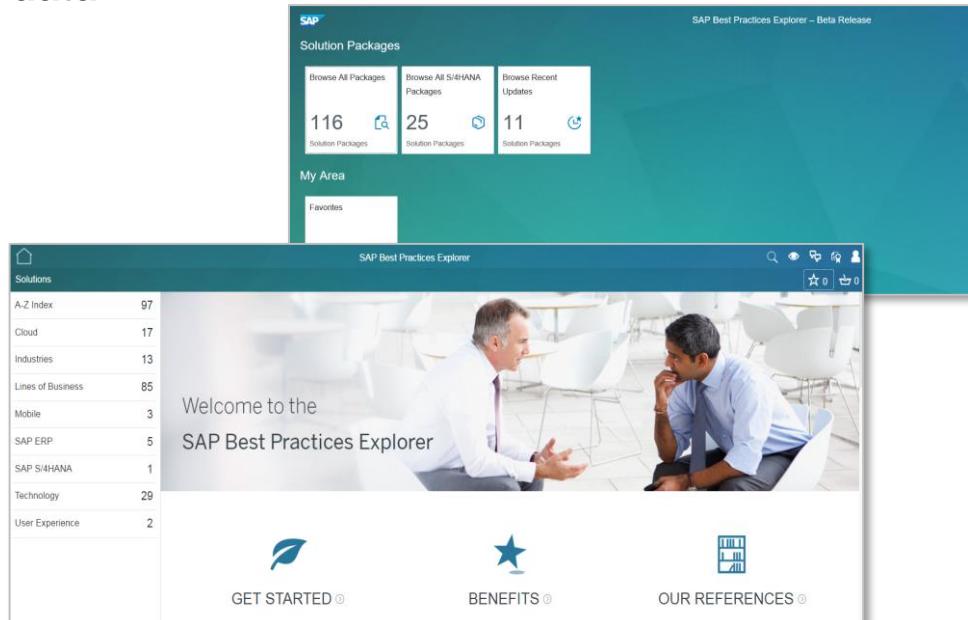
# SAP Best Practices for SAP EWM

## How does it benefit ?

Quickly enable **preconfigured** warehouse management processes

Complete configuration settings and assets to use as **accelerators** in implementation projects

Predefined **warehouse structure** and sample **master data**



### Scope Items / pre-configured warehouse management processes

1G2: Basic Warehouse Outbound Processing to Customer

1FW: Physical Inventory in Warehouse

1FY: Replenishment in Warehouse

1G0: Scrapping in Warehouse

1FU: Initial Stock Upload for Warehouse

1VD: Advanced Warehouse Outbound Processing to Customer

1V5: Warehouse Inbound Processing from Supplier with Batch Management

1V7: Warehouse Outbound Processing to Customer with Batch Management

1V9: Basic Warehouse Inbound Processing from Supplier with Quality Management

1VB: Production Integration - Component Consumption and Receipt in Warehouse

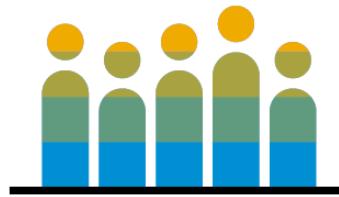
Access : <https://rapid.sap.com/bp>

# Services and ecosystem around SAP EWM

## Strong service offering and ecosystem

### Community

- SAP Community Network
- User group for SAP EWM
- Social networks for SAP EWM
- Customer Connection program



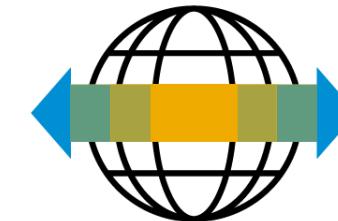
### Education

- Classroom training
- E-learning
- Certification program
- Early Knowledge Transfer
- Learning Map for Consultant



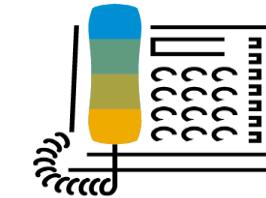
### Global Ecosystem

- Global partners
- Expert logistics partners
- Local partners
- Complementary software products
- Ramp-up knowledge transfer



### Service and Support

- SAP Active Global Support
- Support available in all parts of the World
- 24/7 support Global Support
- Quality assurance services and SAP Safeguarding



- Standardization with easy adaptability to local changes
- Open architecture, integration and scalability

## Summary and additional information



# Find out More about SAP Extended Warehouse Management

Landing page for SAP EWM  
([www.sap.com/ewm](http://www.sap.com/ewm))

SONY ELECTRONICS INNOVATES SUPPLY CHAIN EXECUTION  
Watch the IndustryWeek replay

FEATURES & FUNCTIONS OF SAP SCM EXECUTION – WAREHOUSE MANAGEMENT  
With supply chains being adversely affected by market uncertainties, companies are facing greater challenges in managing their logistics environments. You need partners that can help you plan, source, procure, store, transport, and deliver products – all on a single, unified platform. In using our logistics and fulfillment management (LFM) end-to-end scenario, you gain the end-to-end execution tools that can help you better plan orders and manage global freight across the supply chain – as well as achieve efficiency in the warehouse.

NEW OFFERING: RAPID-DEPLOYMENT SOLUTION FOR SAP EWM  
How can you quickly deploy – with minimal risk – SAP EWM? With our fixed-price, fixed-scope, and fixed-duration offering.

SAP Extended Warehouse Management (SAP EWM) is an integral part of our SAP Supply Chain Management (SAP SCM) application. It is not only a key component in managing logistics and fulfillment, it can also help you gain more efficiency in the warehouse.

IS SAP EWM A RIVAL TO BEST OF BREED?  
Industry analysts think so. Find out why the SAP Extended Warehouse Management (SAP EWM) application is gaining traction in the market.

Read the ARC Advisory Group report (PDF).

Help Portal (<http://help.sap.com/ewm94>)

SAP Help Portal

SAP Business Suite SAP NetWeaver Application Lifecycle Mgmt Additional Information

SAP for Industries Analytics SAP Best Practices

SAP Business One SAP In-Memory Computing On-Demand Solutions

SAP Business Suite SAP Extended Warehouse Management

SAP HANA Innovations for SAP Business Suite

Mobile Apps in SAP Business Suite

SAP Converged Planning

SAP Customer Relationship Management

SAP Customer Relationship Management Add-Ons

SAP Environment, Health, and Safety Management

SAP ERP

SAP Extended Warehouse Management (SAP EWM)  
SAP Extended Warehouse Management (SAP EWM) offers you flexible, automated support for processing various goods movements and for managing stocks in your warehouse complex. The system supports planned and efficient

## SAP EWM in SAP Community Network

(<http://scn.sap.com/community/extended-warehouse-management>)

Welcome: Matthias Kettler | [Profile](#) | [Logout](#)

Solutions | Services & Support | About SCN | Downloads | Activity

Industries | Training & Education | Partnership | Communications

Lines of Business | University Alliances | Events & Webinars | Innovation | Create

Share | Follow | Home

### SAP Extended Warehouse Management (SAP EWM)

Overview Content People Subspaces

Go to Discussions (Forum) | Blog Posts | Documents | A/B/Cards/Learning

#### Overview

Featured Content

Upcoming Events featuring SAP Extended Warehouse Management  
Author: Matthias Kettler  
There are several upcoming SAP and SAP-supported events where you can learn more about SAP Extended Warehouse Management, meet SAP EWM customers and partners, as well as SAP EWM experts. October 11, 2012

SAP Supply Chain Execution Strategy, Solution Overview, and Roadmap  
Author: Franz Helm  
Get an overview of SAP's strategy, SAP solutions, and development investment focus for SAP's Supply Chain Execution Platform, covering SAP Transportation Management, SAP extended Warehouse Management, and Track & Trace solutions. October 11, 2012

Actions

- Start a discussion
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Read the [Rules of Engagement](#).

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