



# Digital Warehouses

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Innovation Technology Integration with  
SAP Extended Warehouse Management

*Experience the Future Today*

**SYSCONS**  
CONNECTED SUPPLY CHAIN SOLUTIONS

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## Head of EWM: Andreas Holtschulte

Until August 2019 SAP SE:

- ❑ SAP EWM for Consumer Products and Retail (Chief Product Owner) + Model Company
- ❑ SAP EWM for Fashion (Chief Product Owner)
- ❑ SAP EWM for Manufacturing and Automotive (Chief Product Owner)

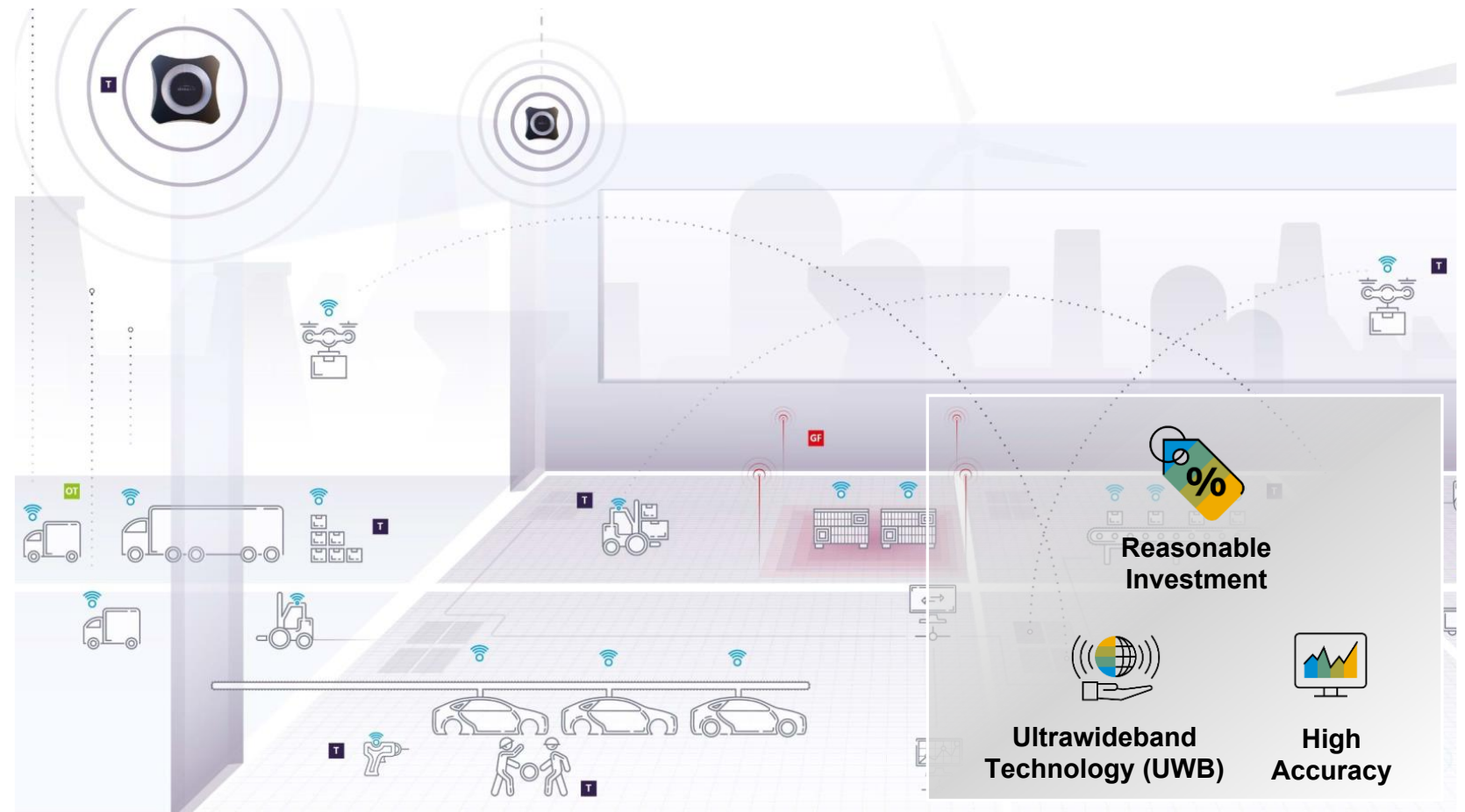
Expert in:

- ❑ Integration of Innovation Technologies in SAP S/4HANA and EWM
- ❑ Related technologies: Extended Warehouse Management (EWM), TM, GTT, ATTP, EM and IoT, AR, VR, AI, Blockchain



Global responsibility for industry products in the area of digital Supply Chain

# Realtime Location System (RTLS) Inhouse



Innovations in  
Intralogistics  
with SAP –  
digital labels  
connected to  
SAP EWM



Warehouse  
Automation  
out of the box  
with SAP  
EWM Material  
Flow System  
(MFS)



Automated Guided Vehicle connected to  
SAP Extended  
Warehouse  
Management (EWM)  
Resource  
Management



Argumented  
Reality for  
picking, packing  
and Value  
Added Services  
/ Kitting



Innovation  
mobile UI –  
Ready for open  
Innovation  
with mobile De  
vices  
in Warehouse



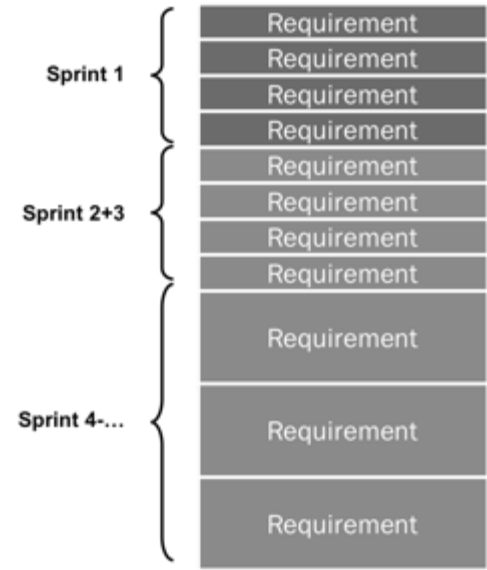


SAP Core	SAP ERP Central Component			SAP S/4HANA		S/4 or SCM
Functional Area	MM	Lean WM	WM	Stock Room Management	EWM Basic	EWM Advanced
Manage Stock at Storage Location	●	●	●	●	●	●
Bin Management	●	●	●	●	●	●
Pick Logic – Wave Management	●	●	●	●	●	●
Placement Strategies	●	●	●	●	●	●
Removal Strategies	●	●	●	●	●	●
Replenishment	●	●	●	●	●	●
Cross Docking	●	●	●	●	●	●
Handling Unit / Storage Unit Management	●	●	●	●	●	●
Deconsolidation	●	●	●	●	●	●
Dock Appointment Scheduling	●	●	●	●	●	●
Enhanced Adjustable RF Technology	●	●	●	●	●	●
FIORI Apps	●	●	●	●	●	●
Graphical Warehouse Layout	●	●	●	●	●	●
Labor Management	●	●	●	●	●	●
Material Flow System	●	●	●	●	●	●
Yard Management	●	●	●	●	●	●
Standard Mobile RF Technology	●	●	●	●	●	●
Task and Resource Management	●	●	●	●	●	●
Transit Warehouse	●	●	●	●	●	●
Unloading of Transportation Units	●	●	●	●	●	●
Value Added Services	●	●	●	●	●	●

- SAP offers 11 technology combinations to manage Stocks and Warehouses
- They differ in functionality, complexity and costs
- What is the best solution considering:
  - ✓ Costs
  - ✓ Complexity
  - ✓ Time to value
  - ✓ Total cost of ownership
  - ✓ Investment protection


- Evaluation of Warehouse locations
- Evaluation of Warehouse processes
- Process Optimization
- License Cost Optimization based on logistics activity-based costing (only advanced where it is really needed)
- Solution Concept, BPML and Backlog for Warehouse Software Architecture and implementation approach based on:
  - ✓ Costs
  - ✓ Complexity
  - ✓ Time to value
  - ✓ Total cost of ownership
  - ✓ Investment protection
  - ✓ SAP Roadmaps for S/4 and EWM

ID	Name	Art. / Unit	Erstellt von	Art. / Wsk.	Status	Priority	Verbleib
1	Warehouse						
2	Warehouse						
3	Warehouse						
4	Warehouse						
5	Warehouse						
6	Warehouse						
7	Warehouse						
8	Warehouse						
9	Warehouse						
10	Warehouse						
11	Warehouse						
12	Warehouse						
13	Warehouse						
14	Warehouse						
15	Warehouse						
16	Warehouse						
17	Warehouse						
18	Warehouse						
19	Warehouse						
20	Warehouse						



- We will find the best fit solution in SAP portfolio for your warehouse landscape.
- We minimize the license costs dramatically by selecting what you really need.
- Re-Use of the existing code line of WM where possible potentially minimizes your implementation cost significantly.
- Value add and quick win driven innovation and integration of WMS technology into your WMS will assure fastest possible ROI.
- We support you in innovating and integrating WMS-Technologies in your WMS.





SPRINT  
ZERO

# SAP Warehouse Innovation



## THE CHALLENGE

- How can your Warehouse Management fit in your global Innovation and Supply Chain Strategy.
- What are the integration points to your global Supply Chain, Production, Planning and digital Supply Chain Business Network and Yard Logistics?
- What can you expect from SAP EWM, WM, SRM, EWM and IoT?
- What advantages does EWM and WMS Innovations deliver for your business?
- Does EWM or other SAP WMS-Solutions support optimizing stock in the context of highly volatile demand situations?
- How does the whole EWM/WMS story tie into your SAP S4 Strategy?

## THE IDEA

- Easy to understand intro into EWM Innovations
- Easy to understand intro into SAP WMS roadmap
- Gathering your business pain points and dream points in the context of warehousing
- Identify, evaluate and prioritize potential Use Cases
- Set up POCs for the highest priority Use Case(s)
- Decide on further proceeding
- Define Sprint Back log



## Model Company for Consumer Products

### Consumer products



- **Batch management**
- **Allergens**
- **Best-before and Short-shelf Life handling.**
- **Production Sites & DCs.**
- **Receiving against ASN/SSCC, against GS1/EAN128 Label, No Label.**
- **Shipping Full Pallets, Mixed Layer Pallets and Case & Piece Picks.**
- **Direct Loading**
- **Picking in fixed bin, single-deep rack, double- and multi-deep racks.**
- **Pre-picking Mixed Layer Pallets or Case & Piece Picks**
- **RF Picking or Pick-by-voice**
- **Transportation Management Integration**