



Warehouse Operations Have  
Gotten More Complex Than Ever

## How Technology Enables Operational Agility

**Emmanuel Langlois**

Executive Vice President

Generix Group North America





## What You Will Learn During This Webinar:

- The changing reality of today's warehousing operations
- How should a modern, adaptable, and intuitive WMS support your operations
- Real-life examples of successful warehouse operations in these challenging times



# The Changing Reality of Today's Warehousing Operations



An aerial photograph of a large container port at sunset. The port is filled with rows of colorful shipping containers (red, blue, green, yellow) and several large yellow gantry cranes. A city skyline is visible in the background under a dramatic orange and yellow sky. A large black hexagonal graphic is overlaid on the left side of the image, containing the text "Disruption is the new normal". A smaller white hexagonal graphic is overlaid on the bottom left, showing a smaller view of the port.

Disruption is  
the new normal

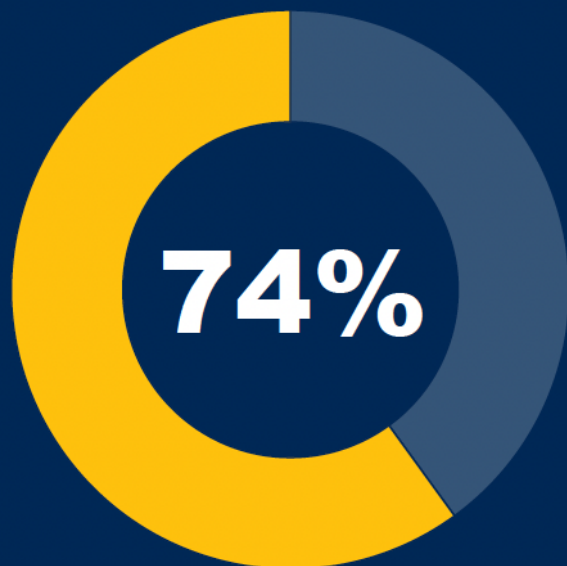


A woman with curly hair, wearing a white polka-dot shirt, is looking down at a tablet device. The background is blurred, showing what appears to be an office or retail environment.

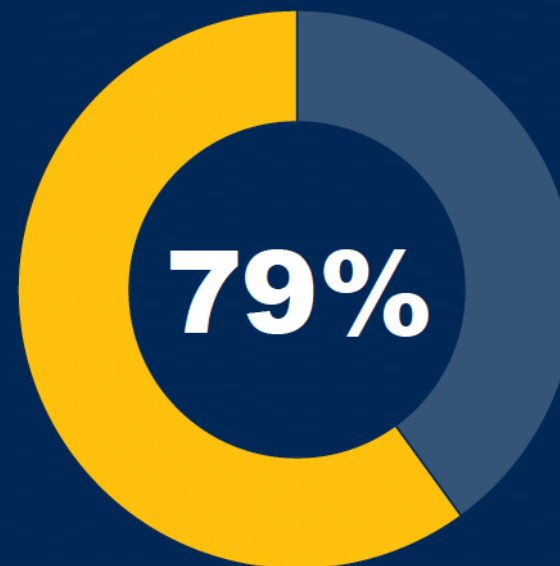
# COVID-19, the Global Pandemic

The global pandemic has caused major shifts in:

- Consumer buying habits
- Online shopping
  - Ecommerce
  - Multichannel & omnichannel
- Inventory visibility
- Inventory forecasting
- Supplier diversification
- Cross-docking opportunities
- Staffing shortages



**of supply chain leaders  
predict customers will  
expect **real-time  
customized products  
and solutions****



**of supply chain leaders  
predict customers will  
only purchase **socially  
responsible products  
and services****

Source: Gartner, "Supply Chain Executive Report: The Future of Supply Chain 2022", G00761064

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# Customer Expectations: Amazon's Impact

As Amazon **grows**, the enterprise continues to alter the supply chain industry.

Logistics companies around the world are altering their processes based on the Amazon model, with **customer obsession** and **operational excellence** becoming key factors to their success.

***“Amazon’s profit soars **220 percent**  
as pandemic drives shopping  
online.”***

**The New York Times**

# Government & Industry Regulations

Governments and industries continue to **change regulations** for various reasons, which often impact the supply chain. Businesses need to be able to **adapt to regulatory changes** to ensure they operate efficiently while meeting new regulations.



## Record-Keeping Requirements Are Changing

The additional traceability record-keeping requirements proposed by the FDA will affect many F&B manufacturers in 2021. With aggressive deadlines, few exceptions, and no phase-in, the proposed rule would make compliance using paper-based systems nearly impossible. The FDA is calling this rule "a major milestone," and simply put, they are not messing around.

If passed as-is, the new rule would require companies to provide documentation for certain Key Data Elements (KDEs) for Critical Tracking Events (CTEs) within 24 hours of request — in a sortable, electronic spreadsheet. So **who must comply with this rule, by when, and what's the easiest way to produce the required documentation given this aggressive timeline?**



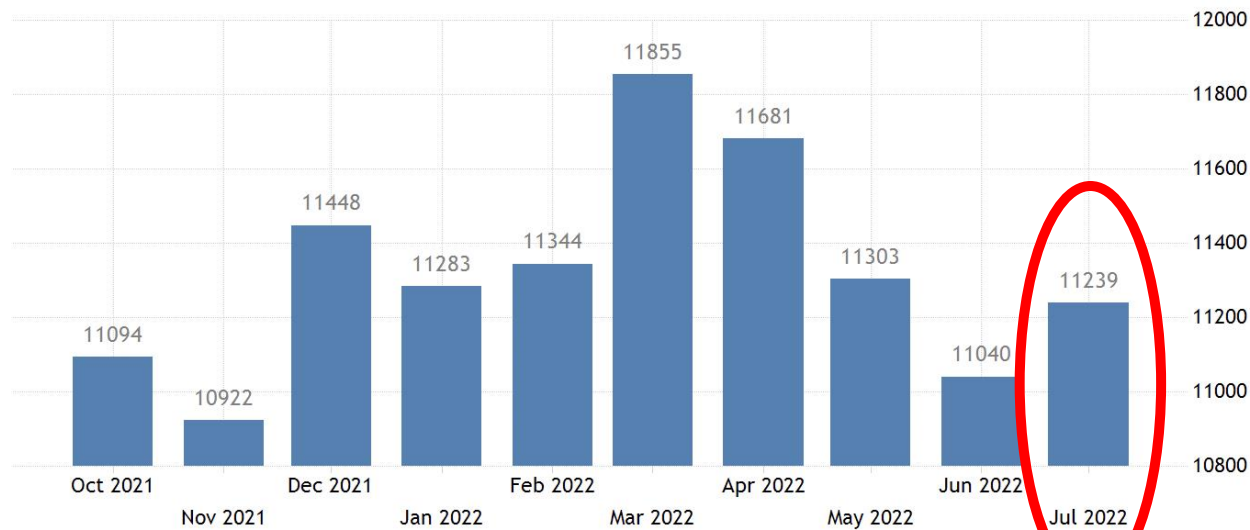
From the U.S. Department  
of Labor

**“In July 2022  
there were 11.2  
million job  
openings”**

## United States Job Openings

Summary Calendar Forecast Stats Alerts Download ▾

1Y 5Y 10Y 25Y MAX Chart Compare Export API Embed



TRADINGECONOMICS.COM | U.S. BUREAU OF LABOR STATISTICS



## United States Job Openings

Summary

Calendar

Forecast

Stats

Alerts

Download ▾



1Y

5Y

10Y

25Y

MAX



Chart



Compare



Export



API



Embed



TRADINGECONOMICS.COM | U.S. BUREAU OF LABOR STATISTICS



# Primary Motivation for Investing in Automation

**66%**

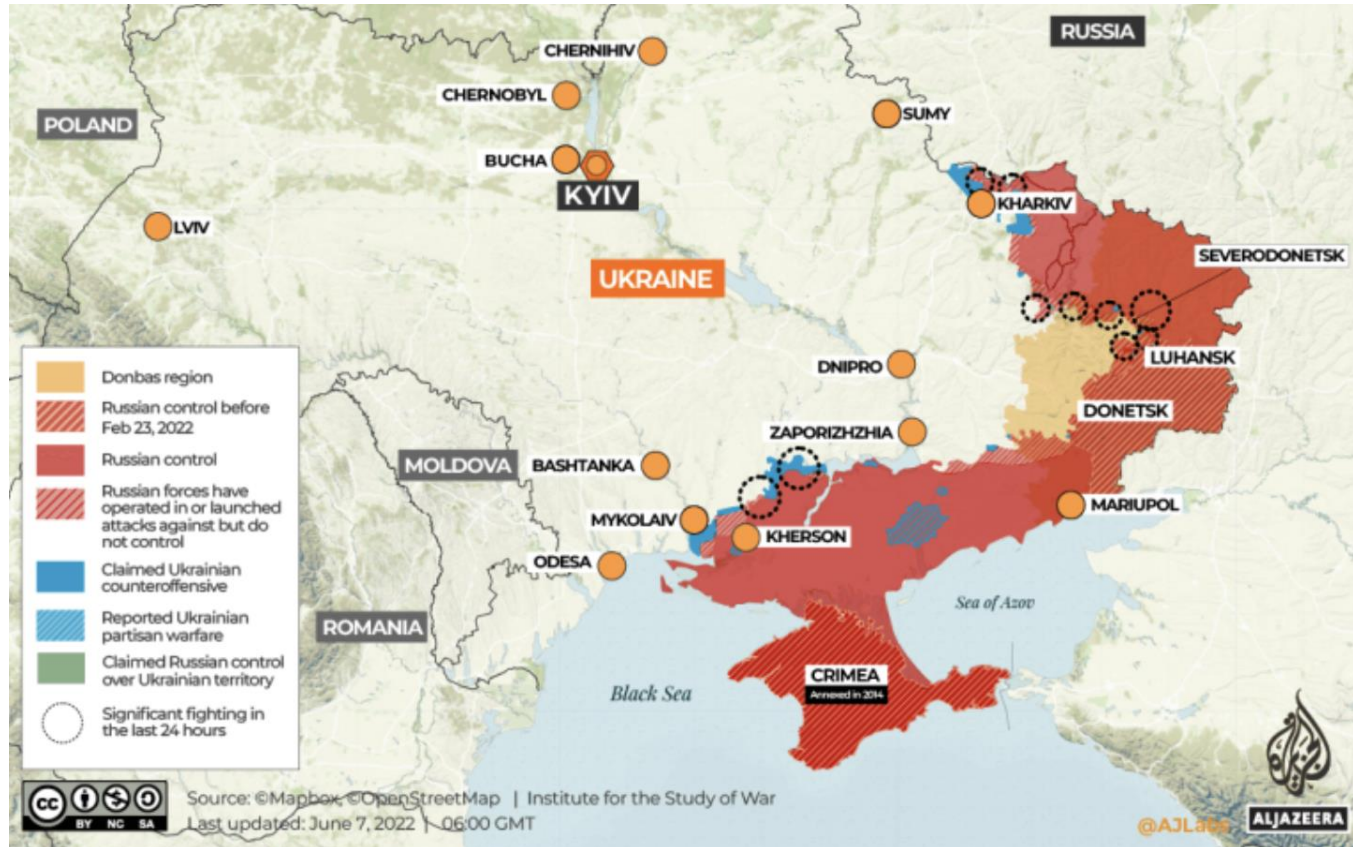
**Labor Availability**

“ By 2026, 75% of large enterprises will have adopted some form of intralogistics smart robots in their warehouse operations”.

**34%**

**Labor Cost**

# War in Ukraine





# Many Phenomena Affecting Warehouse Operations

## Hyperlocal Fulfillment. -

- Proximity versus scale
- Small local versus Big remote

“ 30% of Supply Chain executives are shifting from a global supply chain model to one that is regionally based”. Google Supply Chain

## Omni – Channel

- Ecommerce
- Anywhere, anytime, anyhow, any direction
- Change in the order mix

“ 5.5 Trillion USD – Total Ecommerce market in 2022”.  
“ 21 % of the market up from 17% in 2020”. Shopify, Google Supply Chain

## Economics

- Inflation, raising costs, transportation

## People less

- Automation
- Employee engagement

## Technology evolution

- Analytics / AI / ML
- Cloud adoption / Composability / Micro Services

“ 88% of data is ignored by businesses “  
“67% of executives do not feel comfortable accessing or using data with their existing tools and resources”  
Deloitte, Forrester, Google Supply Chain



# Next Generation of WMS Agility in the Warehouse



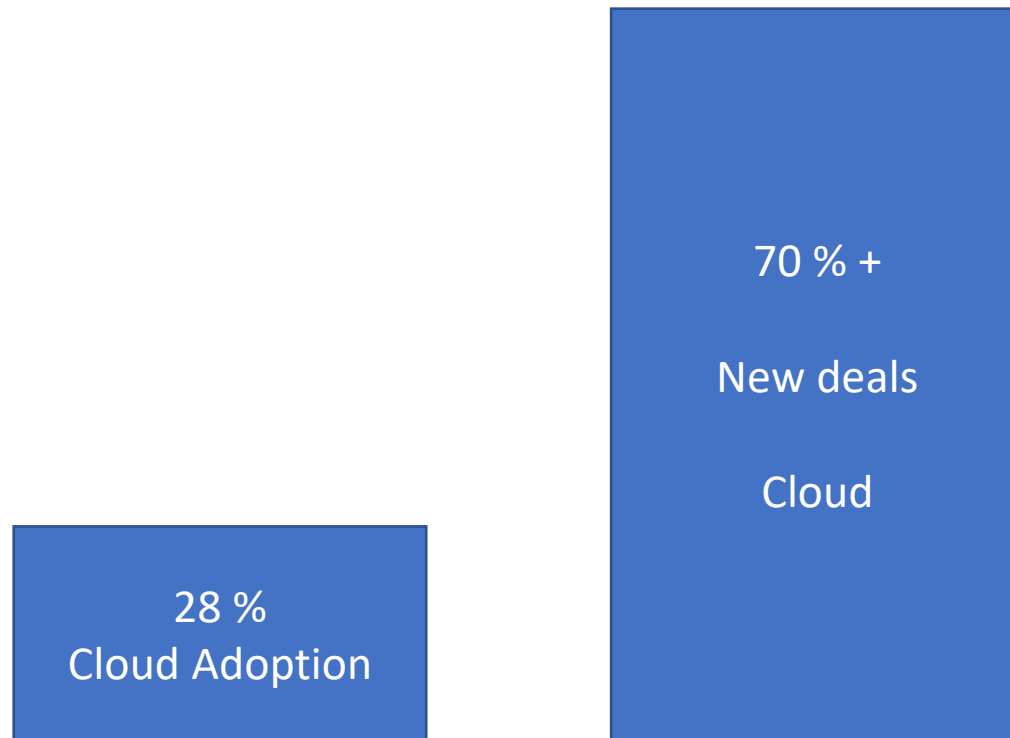
# Through 2026, More New, Revolutionary and Powerful Capabilities Will Be Added to WMS Than Were in the Last 25 Years!

Next Generation WMS Is in Its Adolescence



# Cloud Adoption

Transition from Cloud as an option to cloud as a preference



**Only 10% - Never Cloud**

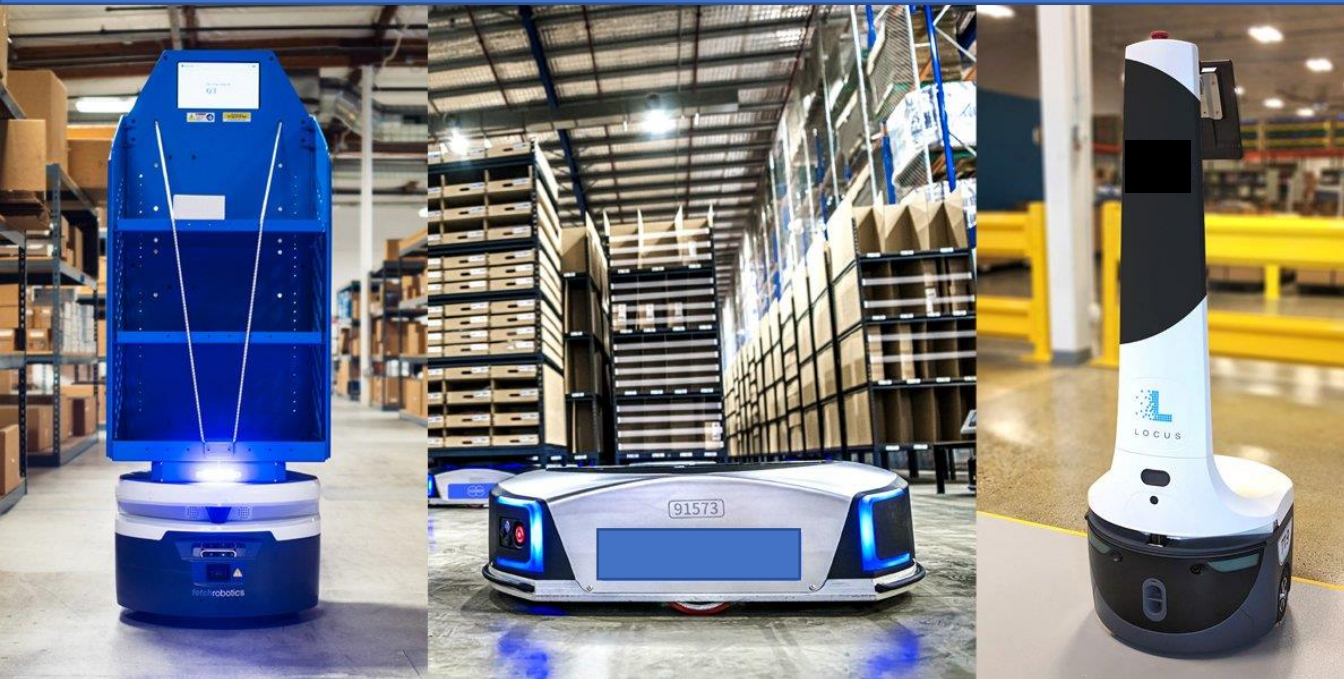
**Gartner®**



# Beyond WMS the Future Is Warehouse Operations Management (WOM)



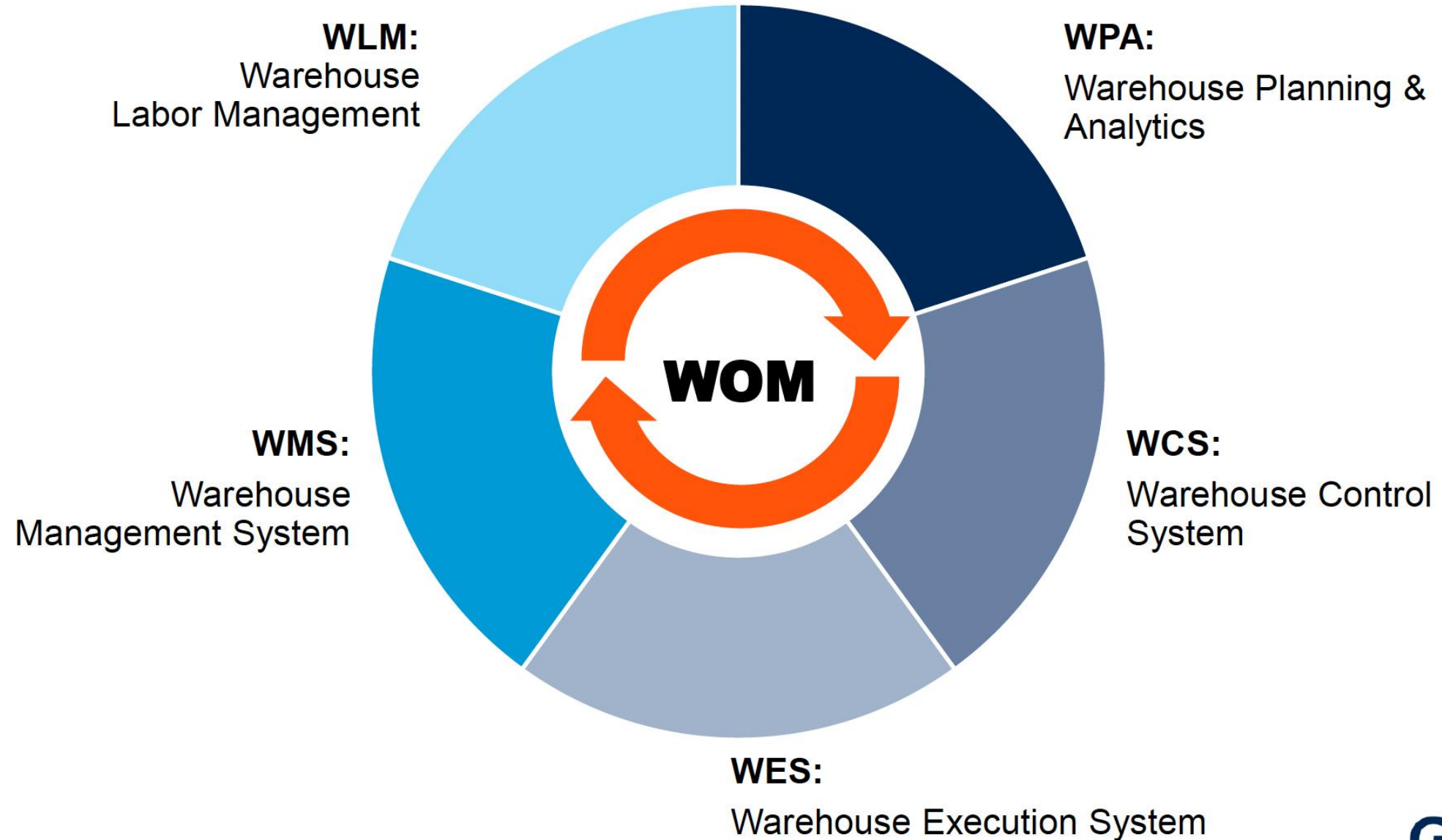
# WCS + LMS =



# RMS



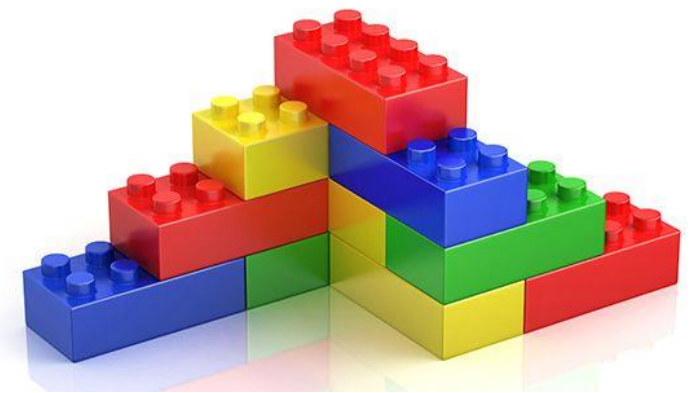
# Evolution to Warehouse Operations Management

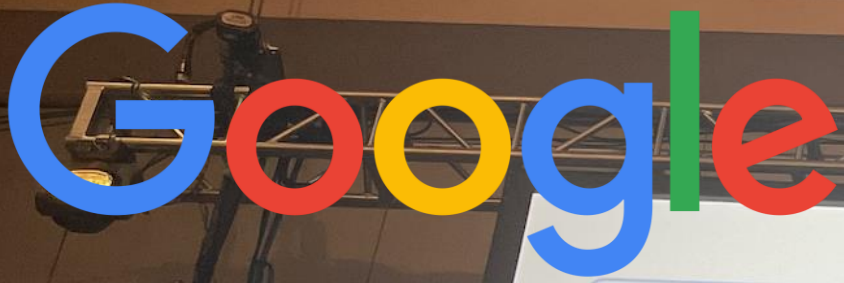




Moving forward, competitive advantages will fall to whoever has the ability to make operations model changes easier, faster, safer and less costly. Modular operating models help create composability by breaking supply chain resources and processes into “LEGO blocks” of capabilities that can be quickly reused and reconfigured. A composable supply chain shortens the time to create or capitalize on a emerging opportunity and allows for quick reactions that can minimize the impact of an emerging threat or disruption

Cited from Predicts 2022, Supply Chain Strategy – 16 Nov 2021





Google Cloud's Supply Chain Vision:  
Change the world by leveraging intelligence  
to create a transparent and sustainable  
supply chain for everyone



Google Cloud



## Supply chain & logistics solutions

[Overview](#)[Solutions](#)[Customers](#)[Partners](#)[Take the next step](#)

## Google Cloud for supply chain and logistics

Make your supply chain resilient, sustainable, and transformative while improving customer experience with Google's digital supply chain solutions.

[Book a consultation](#)

VIDEO

See how data can make your supply chain resilient and sustainable

02:04



LUFTHANSA GROUP



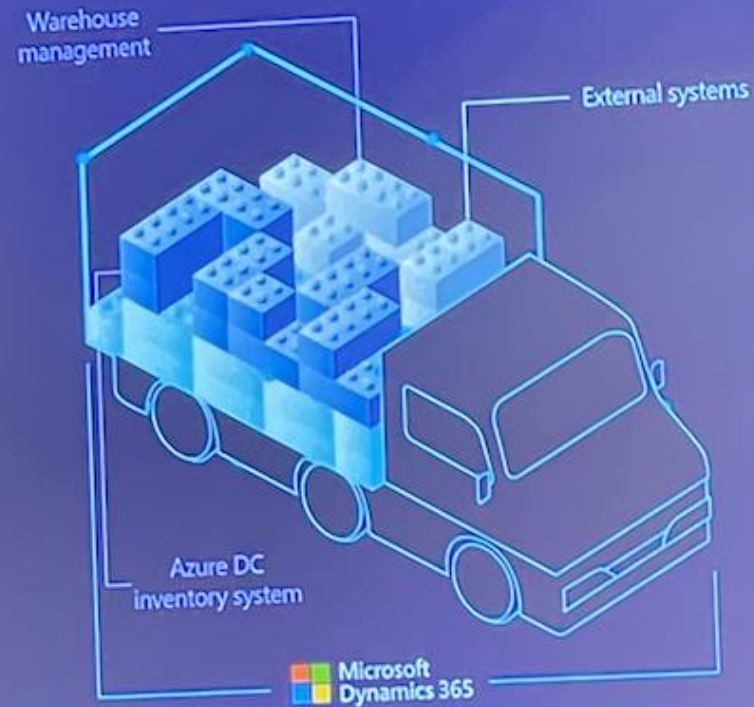
Renault Group





## Improve sustainability with an extensible platform

- Extend ERP systems with low code/no code
- Build a custom reverse logistics solution to reuse, resale and recycle decommissioned data center assets
- Run business processes more efficiently



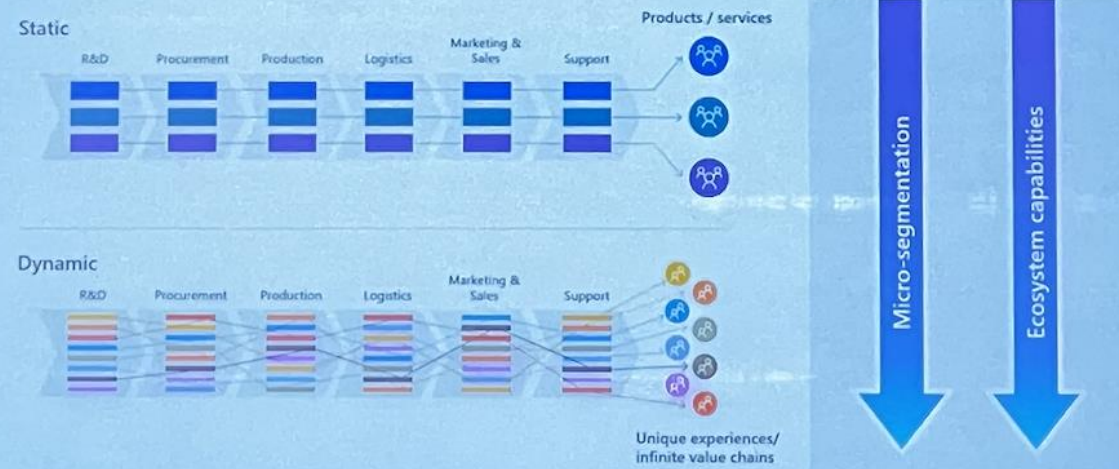
 Microsoft  
Dynamics 365

>  
**accenture**

*High performance. Delivered.*



## Building unique customer experiences



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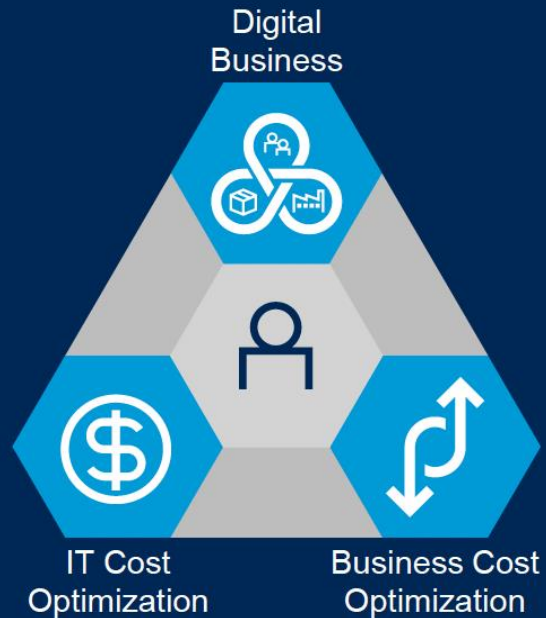
# Value Chain Metaverse



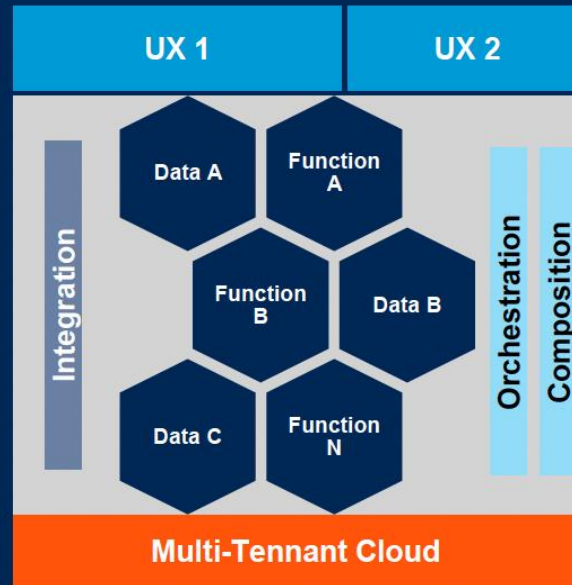


# What's New?

## Warehouse Resource Planning and Optimization



## Composable Microservices Based WMS



## Workforce Optimization



## Flexible Intelligent Robotics



## Magic Quadrant for Warehouse Management Systems

Published 30 June 2021 - ID G00733892 - 98 min read

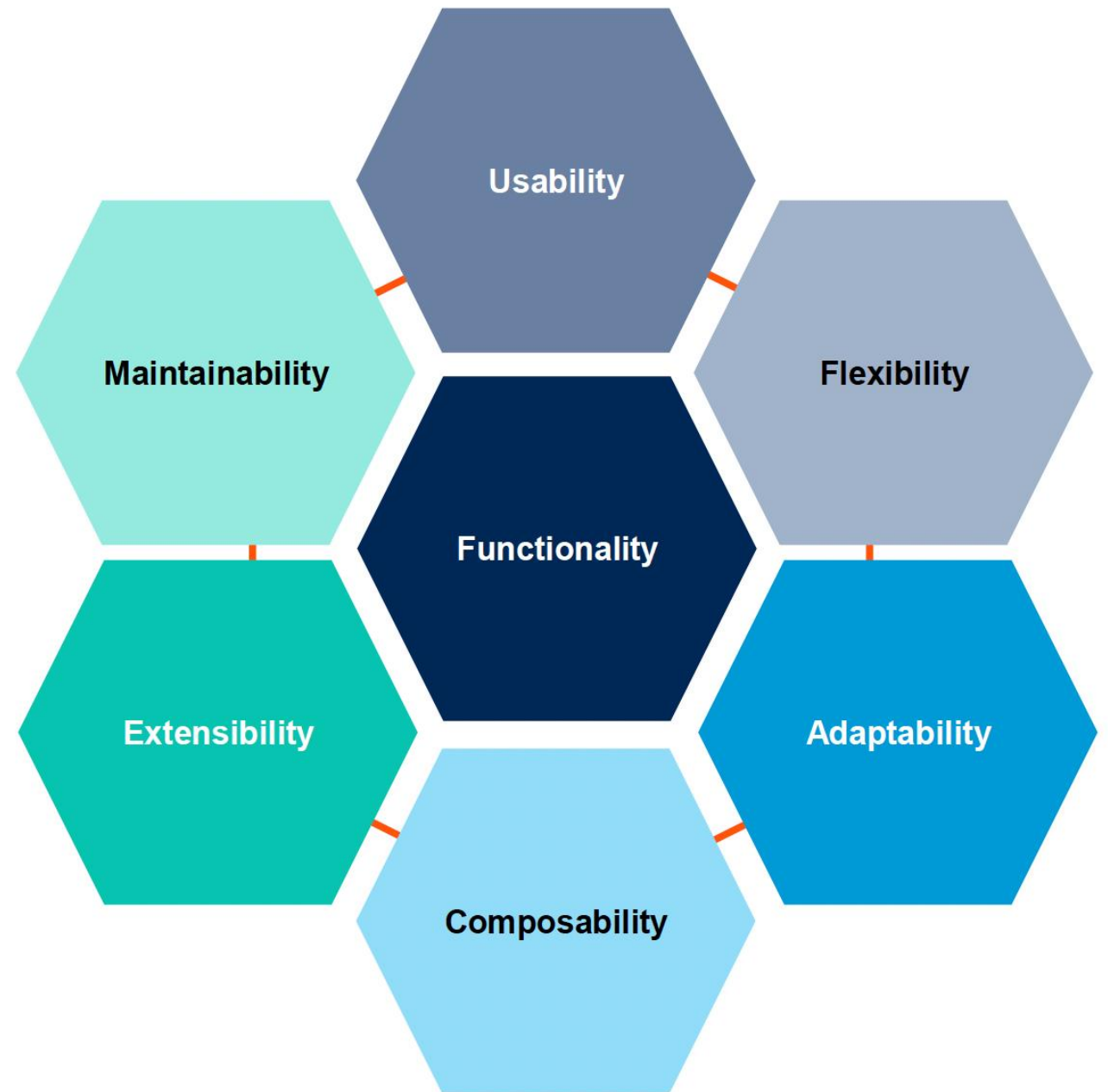
By Analyst(s): Simon Tunstall, Dwight Klappich

Initiatives: [Supply Chain Technology Strategy and Selection](#)

# Strategic Planning Assumptions

Through 2025, technical architecture will equal functionality in importance for new WMS buyers seeking flexibility, adaptability, composability, usability and affordability.

# **WMS the New Normal ... Technology Matters — A Lot!**







## Agility in the Warehouse

- Usability
- Adaptability / Configurability
- Composability
- Implementation Tools

# A Better User Experience



**SOLOCHAIN** Network Inventory Inbound Warehousing Manufacturing **Outbound** Billing Utilities EN ? < > Logged as config

Orders Waves Load Shipments Pick List Yard Management Dashboards Deliver Packing Shipping Quick Links

### Yard and Dock

**Yard and Dock**

Load ID	Reference No	Status	Required Date
187061168	Friday AM Load	ACTIVE	2016-03-30 00:00:00

LD101

LD102

Friday PM Load

Thur AM Load

TRLD201

TRLD202

**DOCK**

**YARD**

**Group by Parking**

- SeaCont-01
- SeaCont-03
- SeaCont-04
- Trailer-03
- Trailer-04
- Trailer-05
- Trailer-06
- Trailer-07
- Trailer-08

Parking

Courier DHL Trailer is on Door-12

Courier FedEx Trailer is on Door-11

Courier UPS Trailer is on Door-10

SeaCont-02 is on Door-07

SeaCont-05 is on Door-05

Shuttle-01 is on Door-08

Shuttle-02 is on Door-09

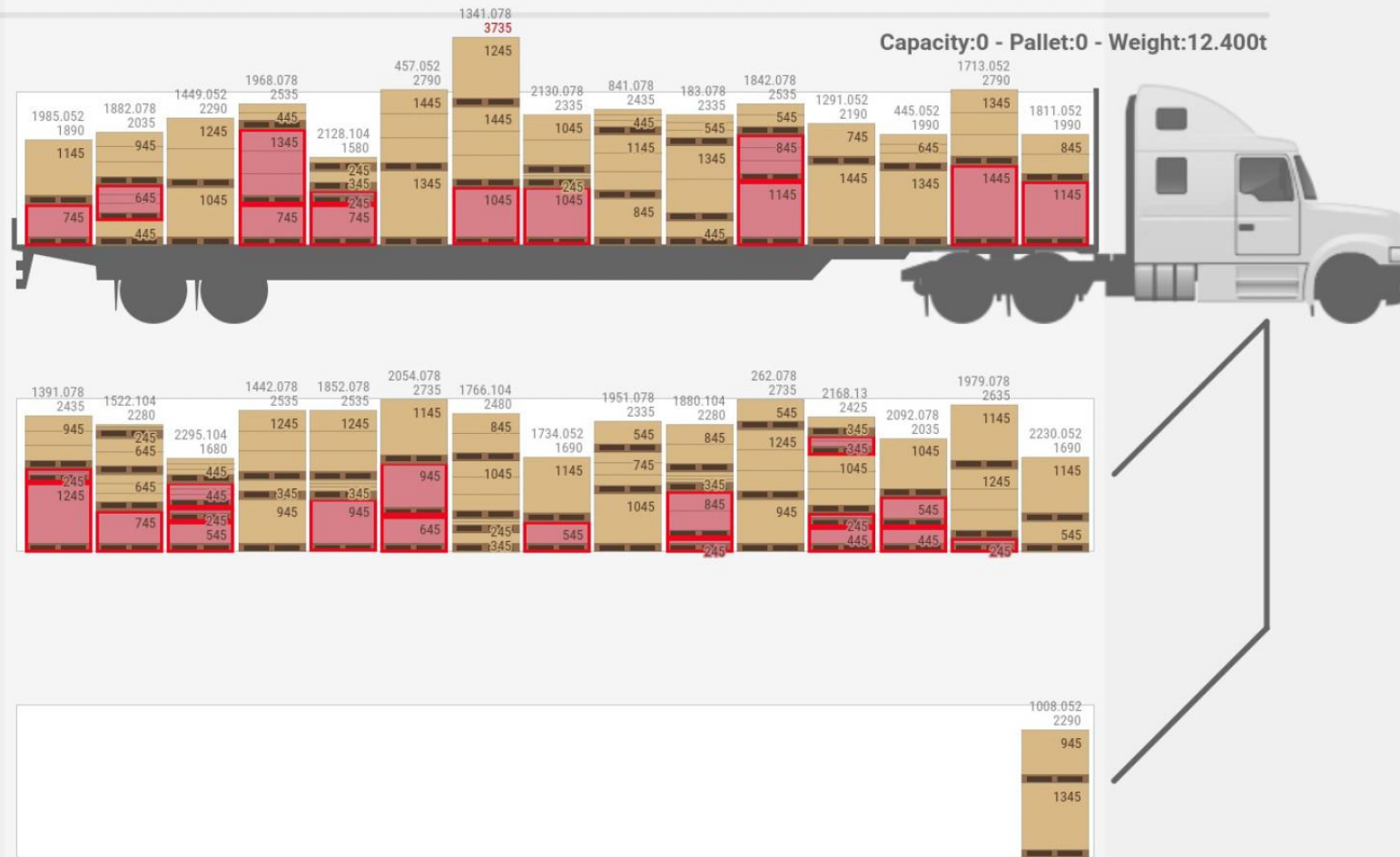
Trailer-01 is on Door-01

Trailer-02 is on Door-02



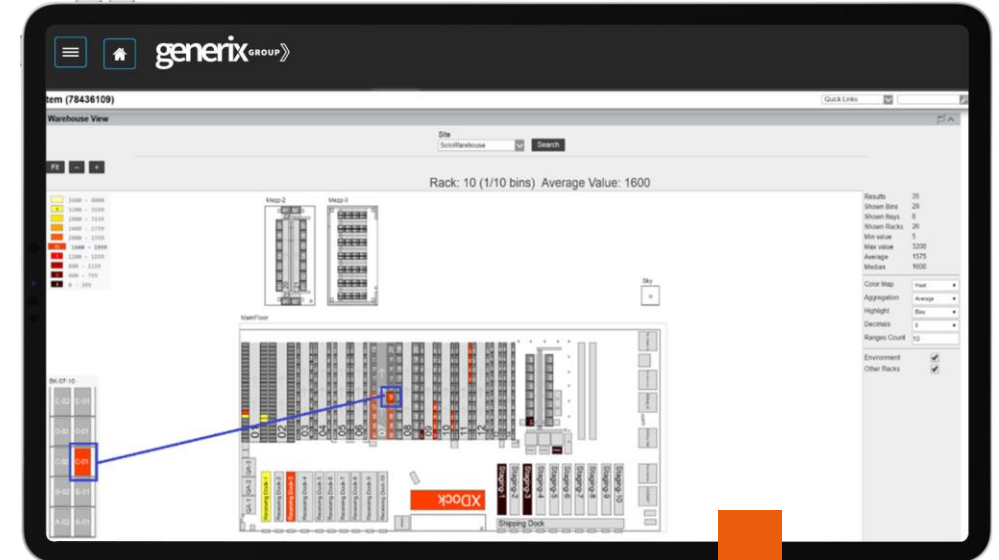
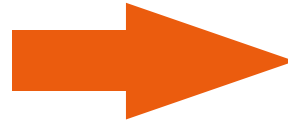
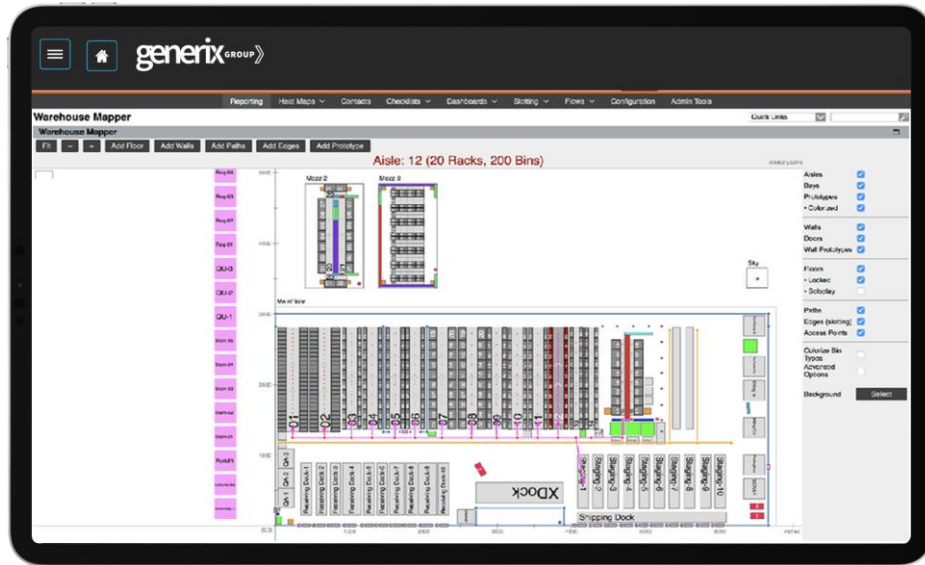
Stacks: 31/15

Capacity:0 - Pallet:0 - Weight:12.400t





# Warehouse Mapper – 2D



## Graphical Advantage of a 2D Mapper

### Heat Map

Build a layout of each site

Expedited warehouse configuration

Conversion to 3D model

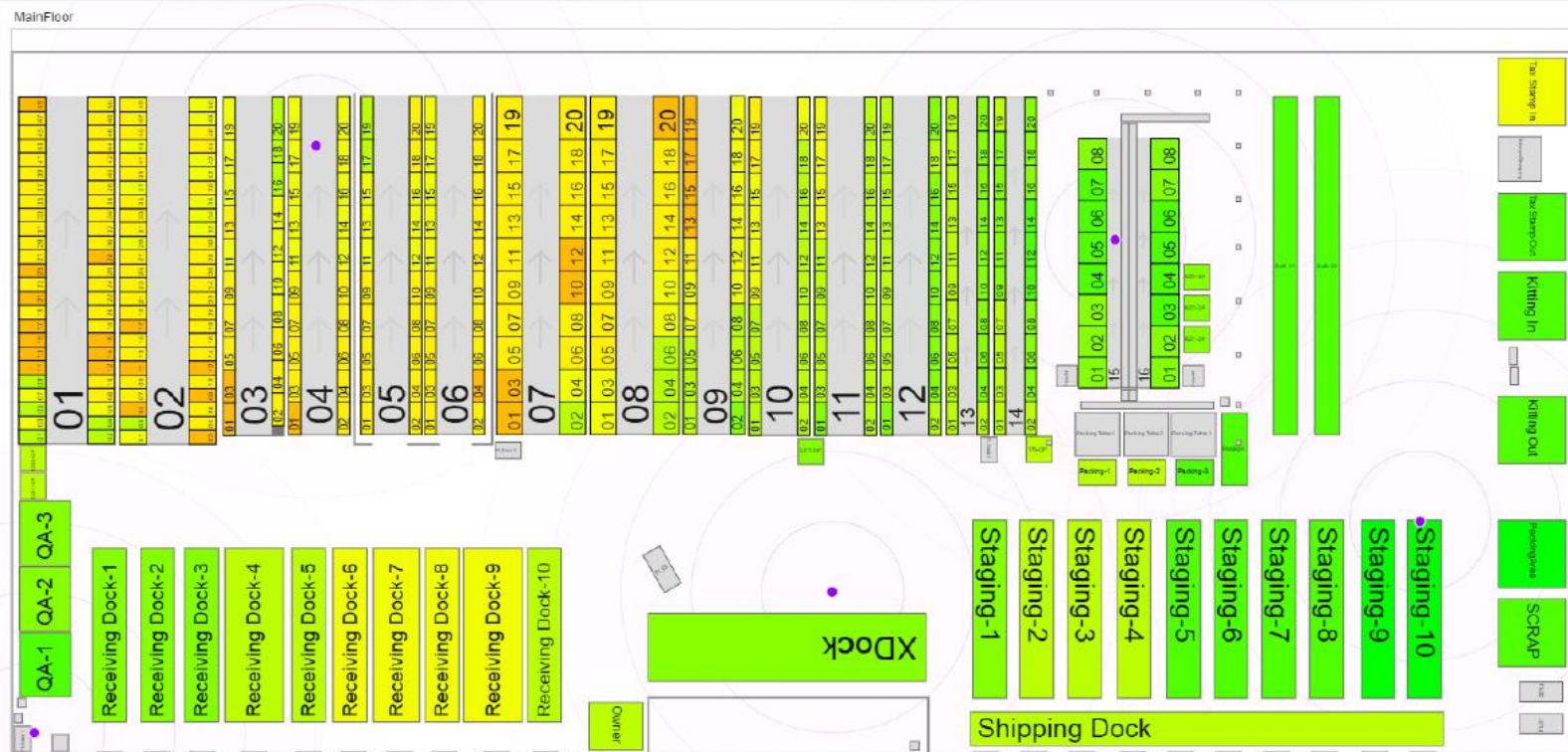
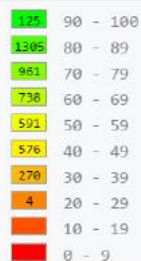
# WIFI Analyzer

Quick Links

## WIFI Analyzer

Access Point Location Name  
All Search

File



Results 4600  
Shown Bins 4507  
Shown Bays 45  
Shown Racks 430  
Min value 22  
Max value 95  
Average 67.617  
Median 71

Color Map Red to Green  
Aggregation Average  
Highlight Bins  
Decimals 0  
Ranges Count 10

Environment  
Other Racks  
Access Points

28

# Highly Adaptable Mobility Processes – A Must

An agile WMS allows business to **add** or to **modify** mobile computer processes as needed.

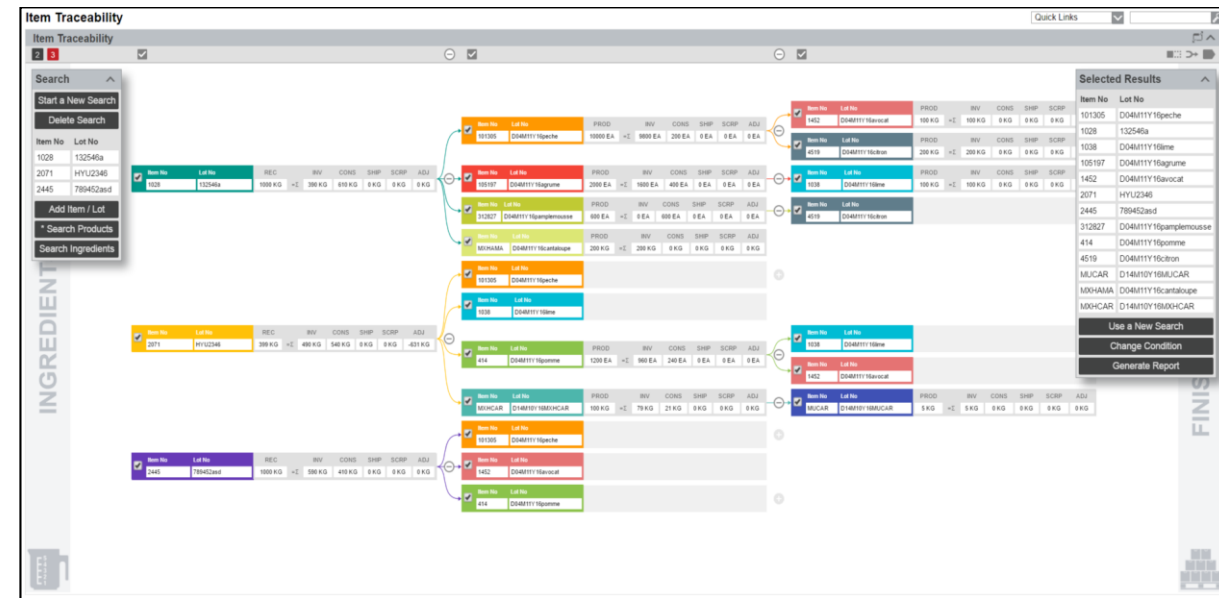
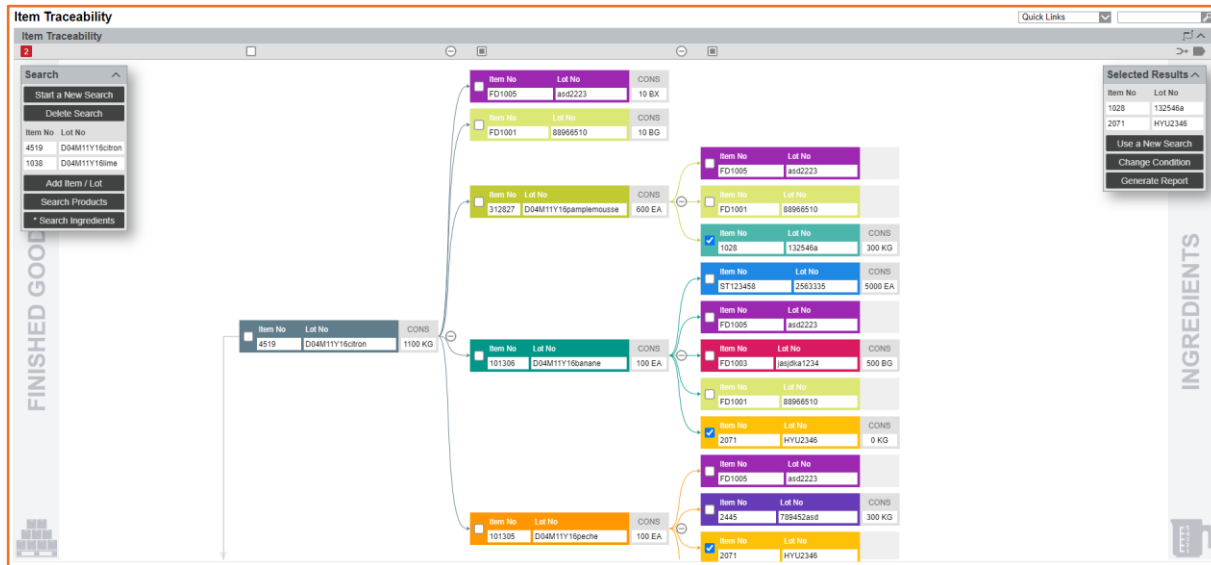




# Warehouse Management System (WMS) Agility


An agile WMS, with MES capabilities need to allow business to quickly generate **item traceability** and **recall reporting**.

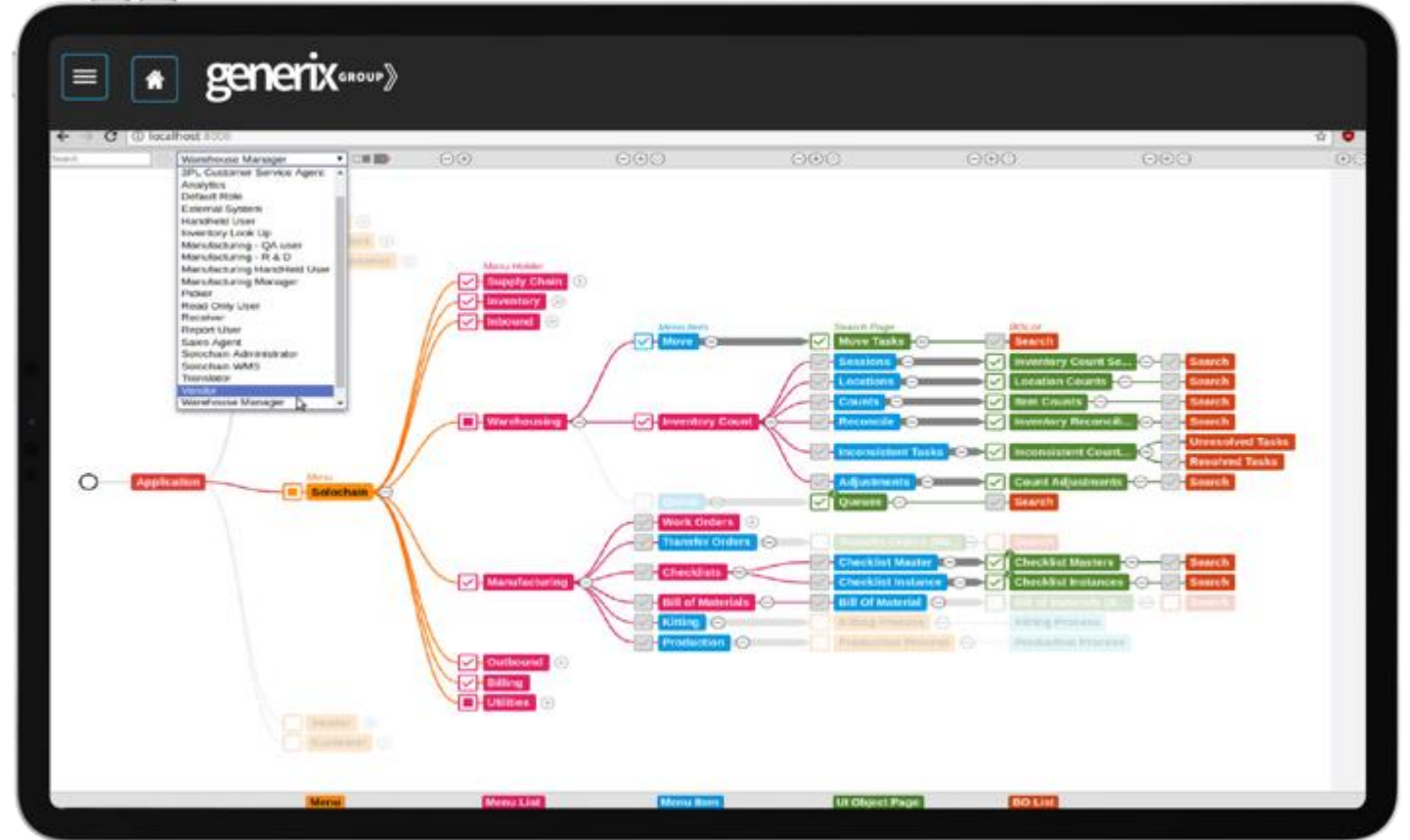
## Item Traceability Report



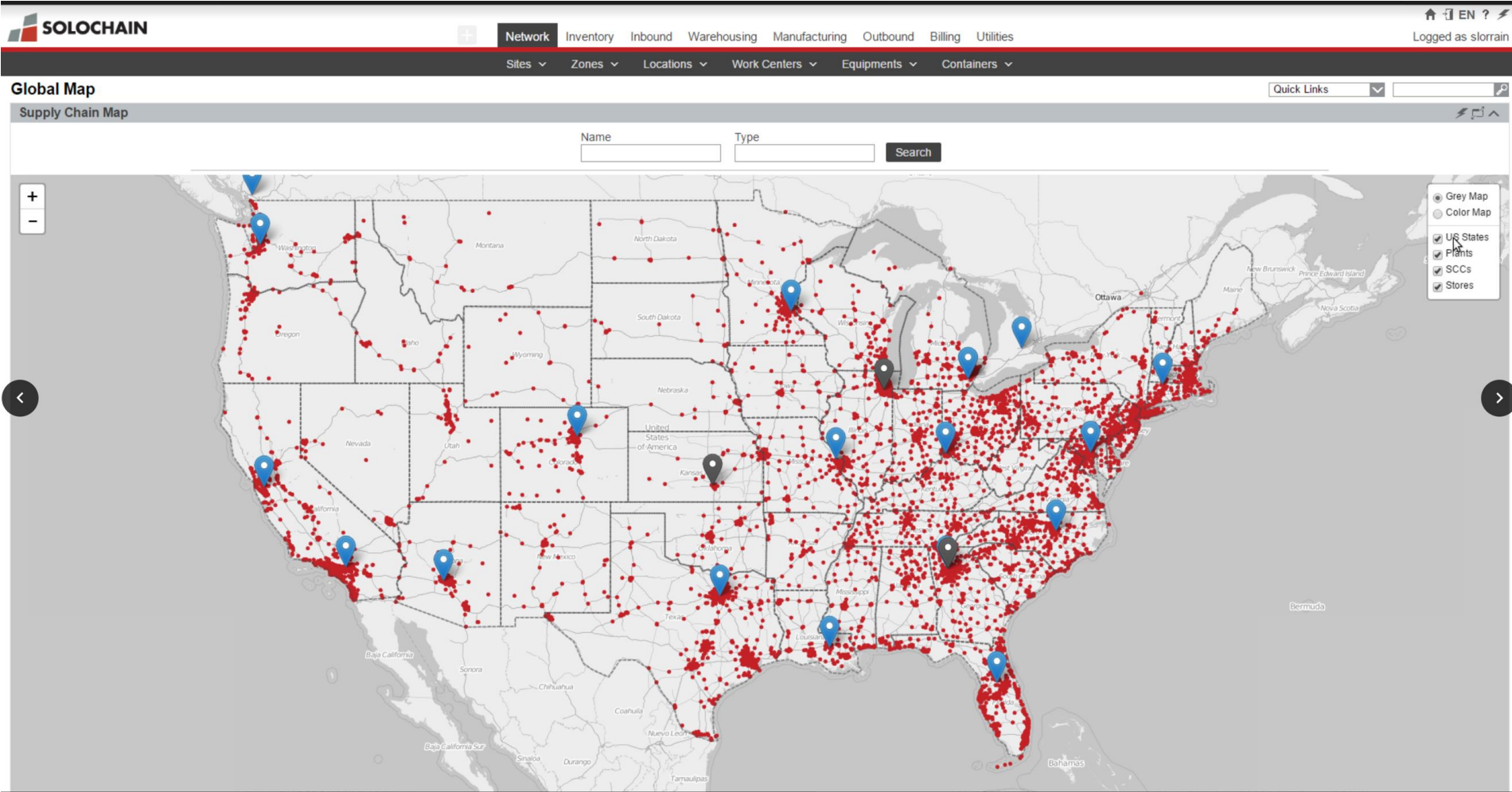
# Graphical Roles & Permission System

## Graphical Roles & Permission Setup:

-  **Intuitive tool facilitates operations management**
-  **Visualization of relationships such as roles, permissions and locations**
-  **Continuous evolution of features and capabilities**



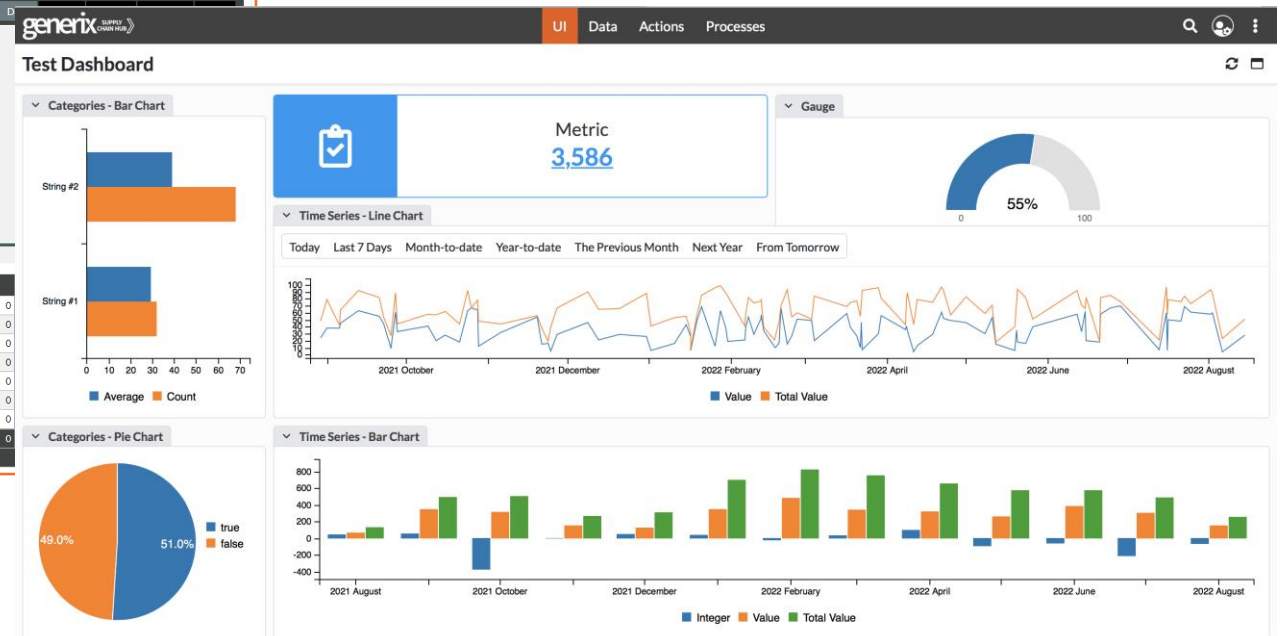
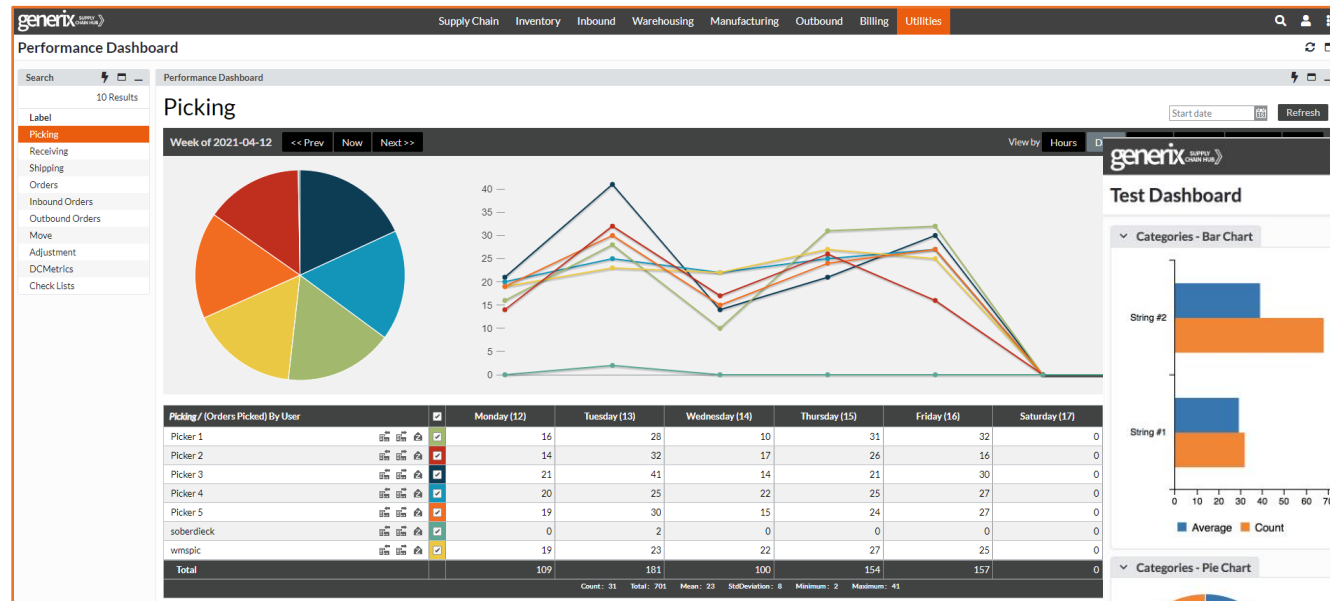
# Real-Time Supply Chain View



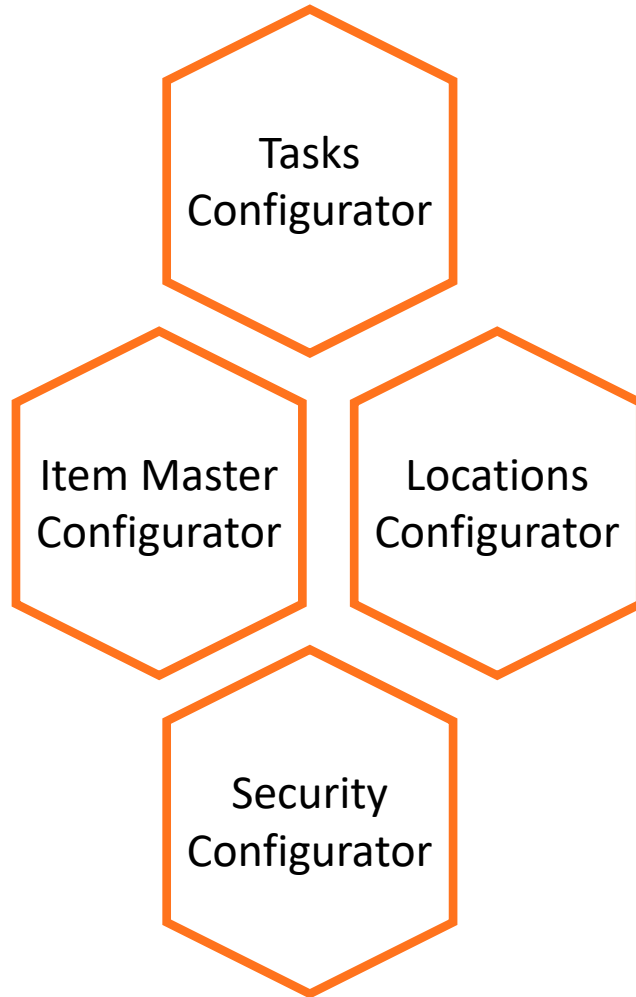


# Warehouse Management System (WMS) Agility

An agile WMS allows businesses to report on key performance indicators (KPI's) and add or modify KPI's as needed.



# Configuration – The Tools Versus the Rules





The Out Of the Box



The Tools



The Skills

generix

Marketing Sales Implementation Support Development Admin Activities Utilities

Accounts Contacts Tools Orders Data BPA's Location Time Logs Activities Releases

Logged as elanglo

Customer Feature (10906)

General Information

Customer Release: 10/9/18 Customer No.: 10/9/18 Label: Feature Against a Shipment Feature No.: 10/9/18

Test Cases Flows Excluded Test Cases

List

Customer No.	Subtype	Use Case No.	Label	Status	Build	Date
10/9/18	SC-NP	SC-NP-001	Main - Receiving against shipment	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-002	Main - Receiving by line	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-003	SC-NP-003 - Inactive Container	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-004	Main	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-005	SC-NP-005 - Receiving dock	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-006	SC-NP-006 - Doc. View	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-007	SC-NP-007 - Inactive document	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-008	SC-NP-008 - Continuous Receiving	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-009	SC-NP-009 - Select product n...	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-010	SC-NP-010 - Missing Inventory	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-011	SC-NP-011 - (Pilot) & Test...	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-012	SC-NP-012 - (Change Date)	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-013	SC-NP-013 - Status	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-014	SC-NP-014 - (SA Close Plac)	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-015	SC-NP-015 - (SA Reopening)	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-016	SC-NP-016 - (SA Backorder)	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-017	SC-NP-017 - Select list	Passed	10	10/9/18
10/9/18	SC-NP	SC-NP-018	SC-NP-018 - Error	Passed	10	10/9/18

Detail

Main - Receiving against shipment

10/9/18-001-001 (SC-NP-001-001)

Input

- Select (2 - Inbound) (Select (1 - Receiving)
- SC01: SCAN RECEIVING AREA (Scan a Receiving Bay)
- SC02: SELECT DOCUMENT TYPE (Shipment)
- SC03: ENTER DOCUMENT NO (Enter the Shipment Reference No.)
- SC04: SELECT RCLM FOR DOCUMENT (Select list)
- SC05: SELECT ITEM (Select part number to receiving)
- SC06: ENTER QTY PER LABEL (Enter received quantity)
- SC07: SCAN LABEL OR LOCATION (Scan a Generic Label)
- SC08: SCAN COLOCATION Confirmation Message - Material Activated
- SC09: SCAN COLOCATION (SKIP to leave item on Receiving Dock)
- SC10: SELECT ITEM (Repeat steps until all parts are received)
- SC11: SELECT ITEM (Close list)

Output

- SC01: SELECT DOCUMENT TYPE Confirmation Message - Receiving has been closed

Date Setup

Receiving Key Configuration: Set Receiving Job - 100

Size Unit: Configuration - ReceivingJobReceiving - 100

The Management



# EMBEDDED LABEL EDITOR

**generix** Software

Home Application Data **Actions** UI Process Reporting System Interfaces Monitoring Documents Security

**Code Editor**

Label Editor

Search

Diagram Colors Wrap Lines ZPL Save

CTL RECEIVING TAG

\$!materialLabel.Material  
I.MaterialMaster.PartNo

Barcode

IN: "BY3^F080,180^BCN,75,N,N,N^FD>:>8\$!mmPartNo^FS

\$!mmName

Lot No: \$!lotNo

Exp. Date: \$!recExpDate

Serial No: \$!serialNo

Receipt Date: \$!recDate

Received By: \$!rcih.User.UserName

P.O. #: \$!orderNo

Receiving UOM: \$!materialLabel.Material.InventoryUOI.Name

QTY: \$!materialLabel.Material.Quantity

Label #: \$!currentLabelNo OF \$!nbLabelsToPrint

Customer No. \$!materialLabel.Material

OID No. \$!materialLabel.Material

\$!uoiiinfos

\$!rcih.Site.AccountNo

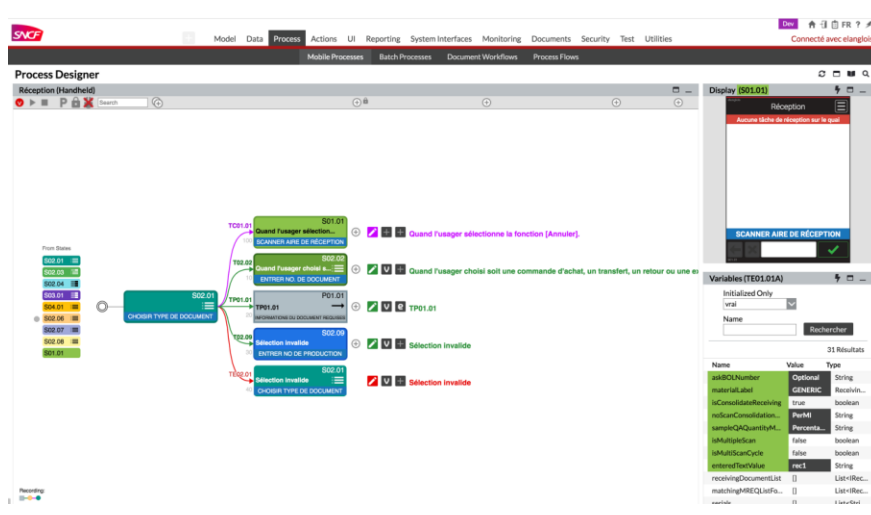
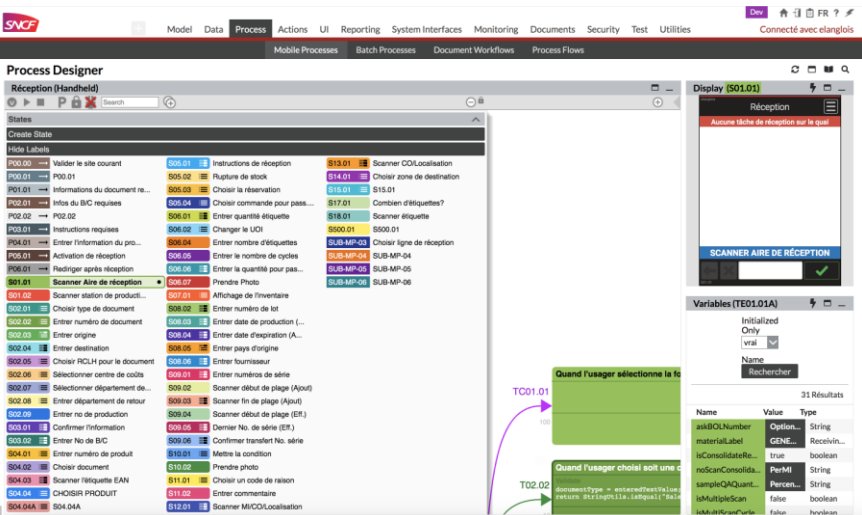
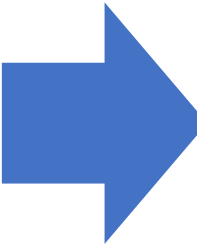
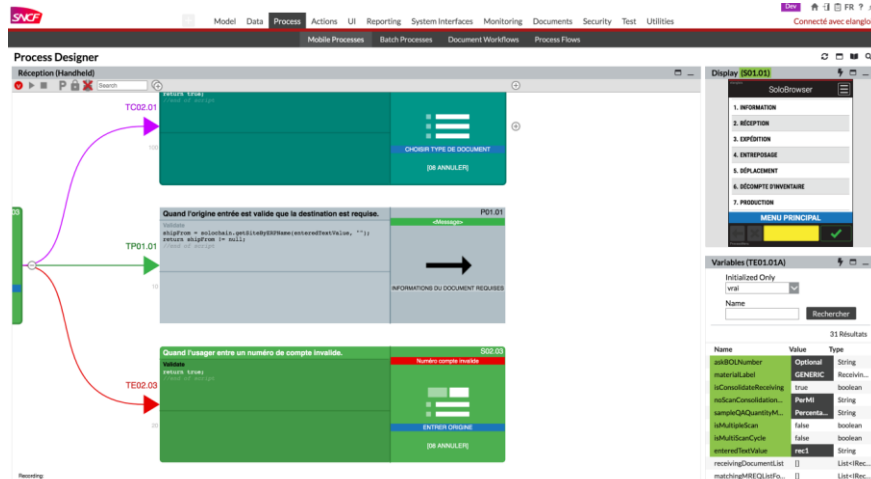
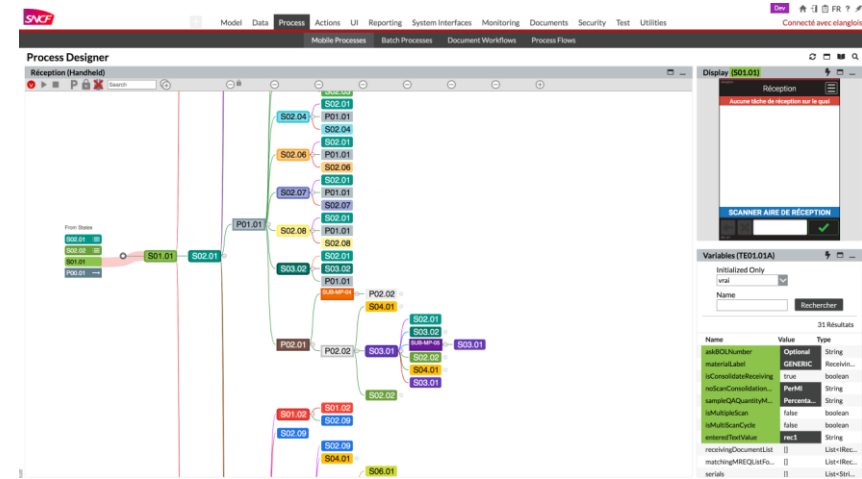
```

16 ~J0
17 ^XA^EG^XZ
18 ^XA
19 ^JMA
20
21 ^F00,0^GB810,1200,1^FS
22
23 ^FX Bloc 1
24 ^FB690,,,c
25 ^F020,20^CI0^A0N,45,45^FR^FDCTL RECEIVING TAG^FS
26
27 ^FB690,2,,,c
28 ^F020,100^CI0^A0N,42,57^FR^FD$!materialLabel.Material.MaterialMaster.PartNo^FS
29
30 #if($!mmPartNo.length() > 12)
31 # ^BY3^F040,180^BCN,75,N,N,N^FD>:>8$!mmPartNo^FS
32 #else
33 # ^BY3^F080,180^BCN,75,N,N,N^FD>:>8$!mmPartNo^FS
34 #end
35
36
37 ^FB690,2,,,c
38 ^F055,310^CI0^A0N,31,45^FR^FD$!mmName^FS
39
40
41 ^FX First Vertical Line
42 ^F0248,750^GB1,250,2^FS
43
44 ^FX Second Vertical Line
45 ^F0290,1000^GB1,150,2^FS
46
47 ^FX Bloc 1^F0,400^GB250,3,130^FS^FX Bloc 2
48 ^F0,530^GB250,3,130^FS
49 ^FX Bloc 3
50 ^F0,650^GB250,3,100^FS
51
52 ^F0,530^GB810,3,1^FS
53
54 ^F0,400^GB810,250,1^FS
55 ^F090,435^CI0^A0N,45,45^FR^FDLot No:^FS
56 #if (($!lotNo) && ("slotNo" != ""))
57 ^F0280,420^CI0^A0N,33,51^FR^FD$!lotNo^FS
58 ^BY2^F0270,470^BCN,40,N,N,N^FD>:>8$!lotNo^FS
59 #end
60 ^F040,555^CI0^A0N,45,45^FR^FDExp. Date:^FS
61
62 #if (($!recExpDate) && ("recExpDate" != ""))
63 #set($!recExpDate = $dateUtils.format("MM/dd/yyyy", $!recExpDate))
64 ^F0280,550^CI0^A0N,28,46^FR^FD$!recExpDate^FS
65 ^BY2^F0280,585^BCN,40,N,N,N^FD>:>8$!recExpDate^FS
66 #end
67
68
69 ^F0,650^GB810,100,1^FS
70
71 ^F050,690^CI0^A0N,45,45^FR^FDSerial No:^FS

```



# Mobile workflow designer





# Page Configuration

**generix** SUPPLY CHAIN HUB

## Inventory

Search

Q&A On Hold

Site

GenWarehouse

Item Name

TopContainer

Condition Reason

Tracking Mode

None Upd

OID

Weight

**Code Editor 12119400**

Search

Diagram Recognition Wrap SoloQL Execute Actions

```

1  -- SoloQL Query -----
2
3  SELECT concat(obj,'@',obj.Class), invloc.AllocateInventory,
4         AND obj.Label = 0 THEN (
5  SELECT enumValue.Label
6  FROM EnumerationValue enumValue
7  INNER JOIN Enumeration enum ON enum = enumValue,Enumeration
8  WHERE enum.Name = 'Material.ManualCatchWeight'
9         AND enumValue.Name = 'MANUAL' ) ELSE concat(obj.Weight,
10 FROM [Material] obj
11 INNER JOIN [MaterialMaster] mm on mm = obj.[MaterialMaster]
12 LEFT JOIN [Location] l on l = obj.[Location]
13 LEFT JOIN [Container] tc on tc = obj.[TopContainer]
14 LEFT JOIN [Container] c on c = obj.[Container]
15 LEFT JOIN [UOIConfig] uoi on uoi = obj.[UOI]
16 LEFT JOIN [Site] o on o = obj.[Owner]

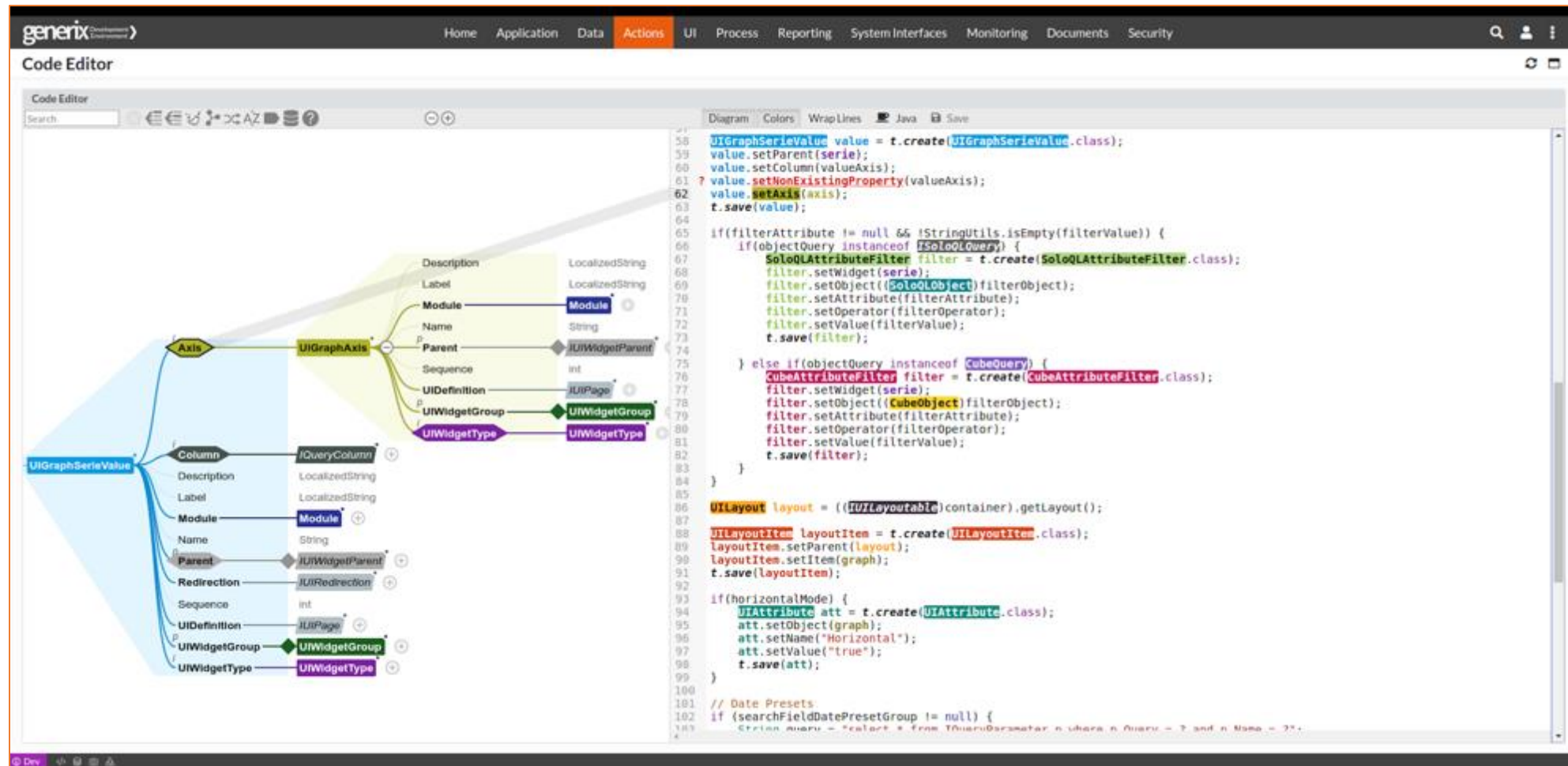
```

```

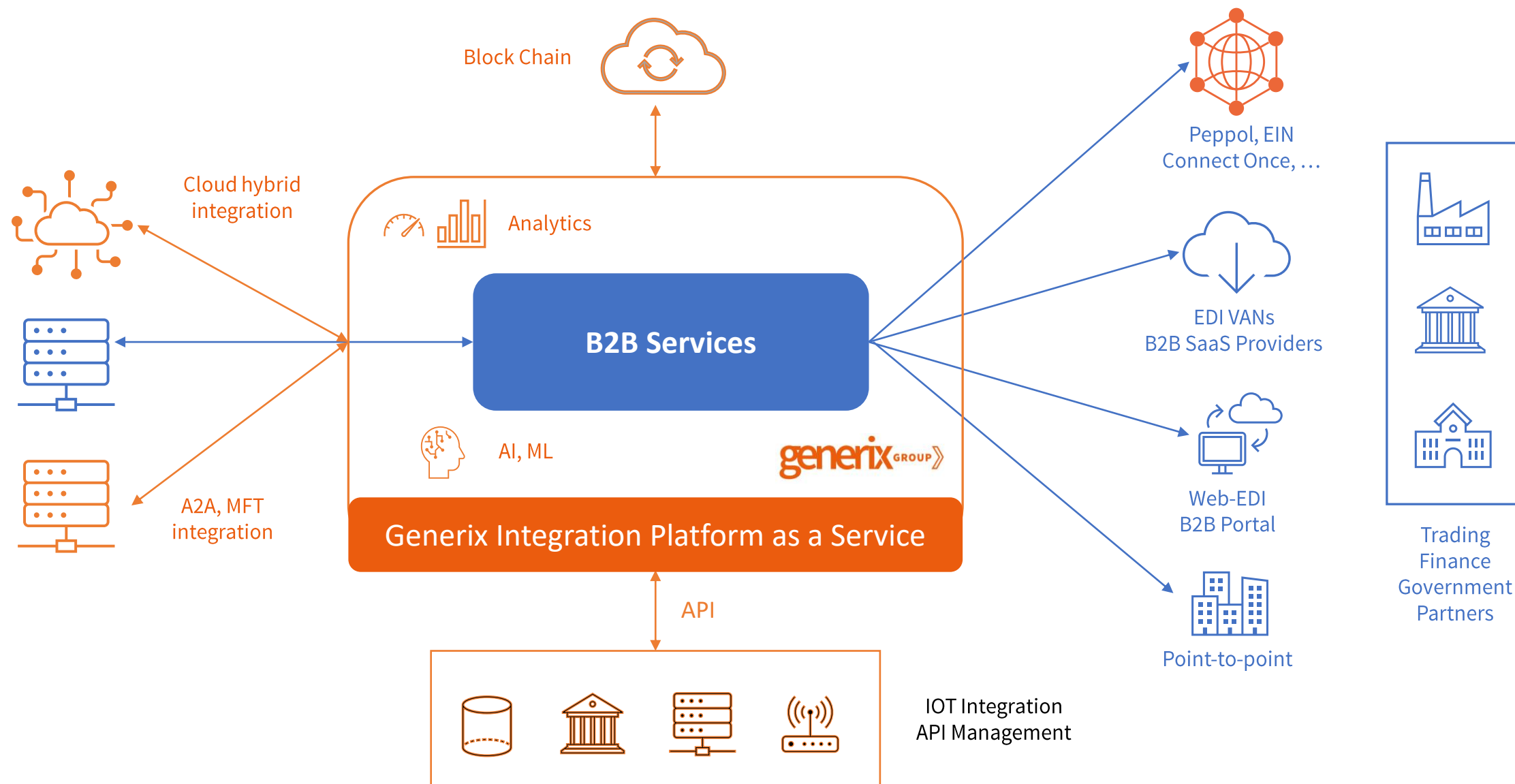
1  -- Model Query -----
2  SELECT obj.Location.InventoryLocation.AllocateInventory,
3         obj.MaterialMaster.PartNo,
4         obj.MaterialMaster.Name,
5         obj.Material.Quantity.InventoryUOI,
6         obj.MaterialConditionMaterialCondition.Label,
7         obj.MaterialMaster.MMPProductClass.Code,
8         obj.ZoneZone.Name,
9         obj.OID,
10        obj.TopContainer.Name,
11        obj.Container.Name,
12        obj.Owner.DisplayName,
13        obj.Material.Weight,
14        obj.Location.Name,
15        obj.Quantity,
16        obj.ExternalOID,

```

# Code Editor – Low Code / No Code



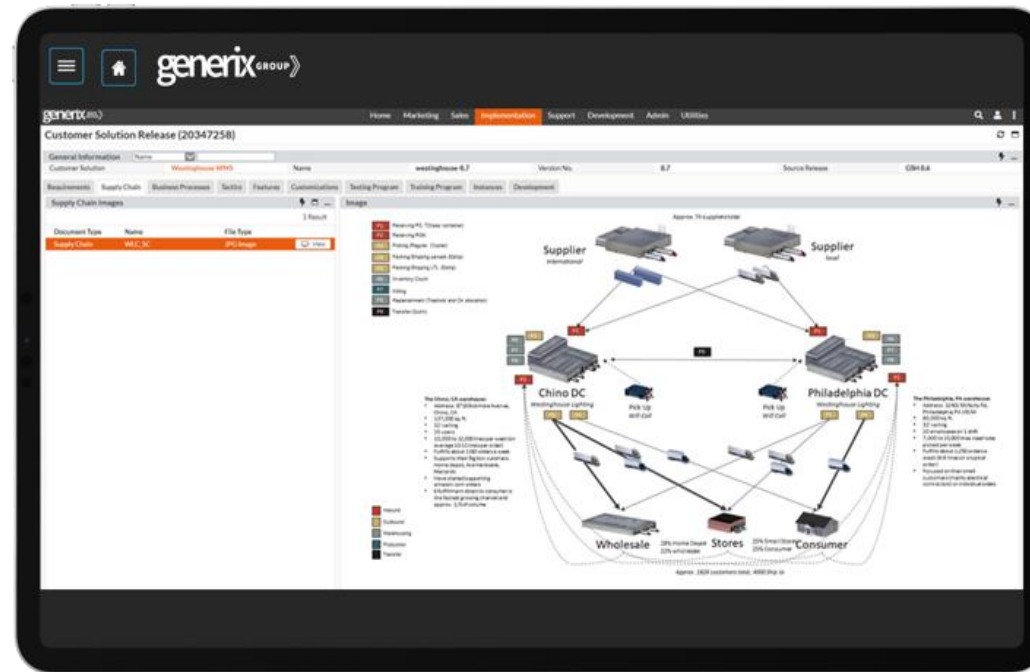
# Warehouse Management System (WMS) Agility





# Implementation Tools

- Company's requirements
- Supply chain documentations
- Business processes
- Tactics
- Features and use cases
- Configurations
- Testing program
- Training program
- Release Management
- Support and maintenance



Customer No.	Subtype	Use Case No.	Label	Status	Build	Date
IN-BF-007-01-001	Main	SC-IN-BF...	Main - Receiving against...	Passed	10	10/9/18
IN-BF-007-01-002	Main	SC-IN-BF...	Main - Receiving by line	Passed	10	10/9/18
IN-BF-007-01-003	Alternative	SC-IN-BF...	S13.01 - Inactive Container	Passed	10	10/9/18
IN-BF-007-01-004	Main	SC-IN-BF...	S13.01 - Receiving dock...	Passed	10	10/9/18
IN-BF-007-01-005	Alternative	SC-IN-BF...	S01.01 - Doc. View	Passed	10	10/9/18
IN-BF-007-01-006	Alternative	SC-IN-BF...	S01.03 - Doc. View	Passed	10	10/9/18
IN-BF-007-01-007	Alternative	SC-IN-BF...	S02.02 - Invalid document	Passed	10	10/9/18
IN-BF-007-01-008	Alternative	SC-IN-BF...	S02.02 - Continue Receiving	Passed	10	10/9/18
IN-BF-007-01-009	Alternative	SC-IN-BF...	S04.01 - Select product n...	Passed	10	10/9/18
IN-BF-007-01-010	Alternative	SC-IN-BF...	S04.01 - Select product n...	Passed	10	10/9/18
IN-BF-007-01-011	Alternative	SC-IN-BF...	S04.01 - Missing Volume	Passed	10	10/9/18
IN-BF-007-01-012	Alternative	SC-IN-BF...	S04.01 - [Filter] & Today's	Passed	10	10/9/18
IN-BF-007-01-013	Alternative	SC-IN-BF...	S04.01 - [Change Doc]	Passed	10	10/9/18
IN-BF-007-01-014	Alternative	SC-IN-BF...	S04.01 - Status	Passed	10	10/9/18
IN-BF-007-01-015	Alternative	SC-IN-BF...	S04.01 - [OK Close Rec.]	Passed	10	10/9/18
IN-BF-007-01-016	Alternative	SC-IN-BF...	S05.01 - [01 Reconnection]	Passed	10	10/9/18
IN-BF-007-01-017	Alternative	SC-IN-BF...	S05.01 - [02 Backorder]	Passed	10	10/9/18
IN-BF-007-01-018	Alternative	SC-IN-BF...	S05.03 - Select test	Passed	10	10/9/18
IN-BF-007-01-019	Alternative	SC-IN-BF...	S05.03 - Enter	Passed	10	10/9/18

# Integrated Implementation Platform - Testing

The screenshot displays the 'Implementation' module of the generix platform. The top navigation bar includes links for Marketing, Sales, Implementation (active), Support, Development, Admin, Activities, and Utilities. A secondary bar contains Accounts, Contacts, Tasks, Orders, Devs, BPA's, Iteration, Time Logs, Activities, and Releases. The user is logged in as 'elangoil'.

The main section is titled 'Customer Feature (10906)' and shows 'General Information' for 'Customer Release: Stokes-8-1.0', 'Customer No.: IN-BF-007-01', 'Label: Receive Against a Shipment', and 'Feature No.: SC-IN-BF-038'. Below this, there are tabs for 'Test Cases', 'Flows', and 'Excluded Test Cases'. The 'Test Cases' tab is active, showing a 'List' of test cases with filters for Subtype, Name, Last Test Status, Label, Output, and Data Setup. A search button is present.

Below the filters, there are buttons for '+ New Internal Test', '+ New Customer Test', 'Passed Test', 'Failed Test', 'Failed Customer Test', and 'Delete'. A table of test results is shown, with columns for Customer No., Subtype, Use Case No., Label, Status, Build, and Date. The first row is highlighted in orange.

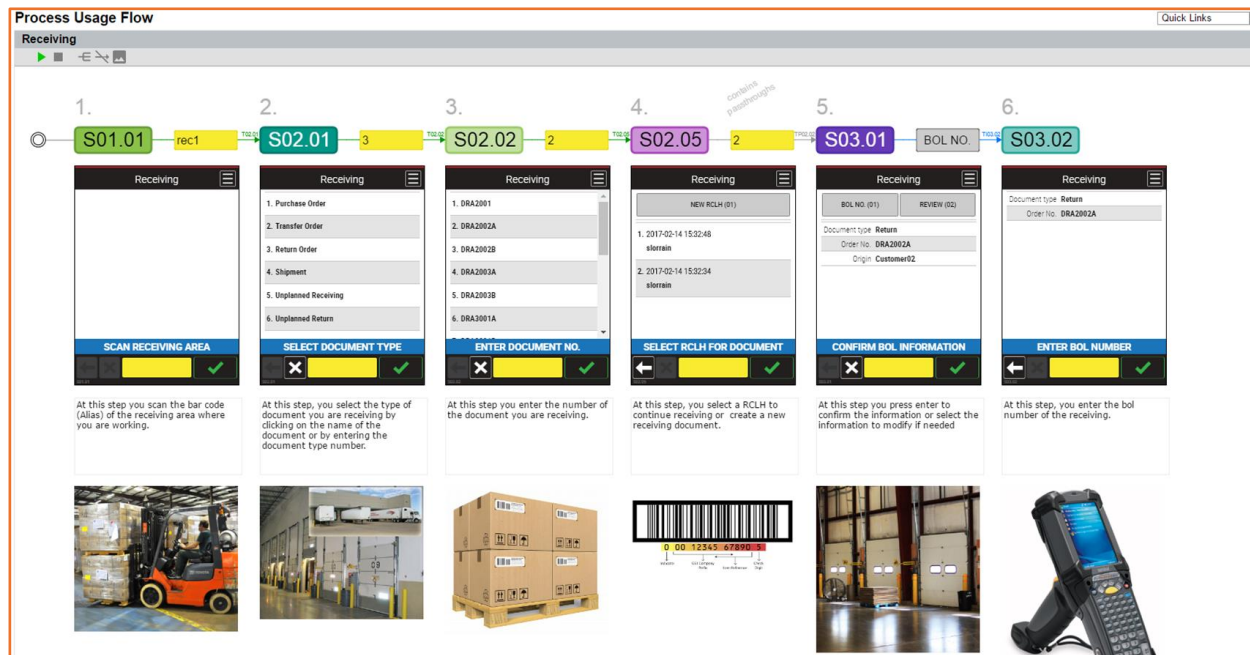
Customer No.	Subtype	Use Case No.	Label	Status	Build	Date
IN-BF-007-01-001	Main	SC-IN-BF-...	Main - Receiving against ...	Passed	10	10/9/18
IN-BF-007-01-002	Main	SC-IN-BF-...	Main - Receiving by line	Passed	10	10/9/18
IN-BF-007-01-003	Alternative	SC-IN-BF-...	513.01 - Inactive Container	Passed	10	10/9/18
IN-BF-007-01-004	Main	SC-IN-BF-...	Main	Passed	10	10/9/18
IN-BF-007-01-005	Alternative	SC-IN-BF-...	501.01 - Receiving dock, ...	Passed	10	10/9/18
IN-BF-007-01-006	Alternative	SC-IN-BF-...	501.03 - Doc. View	Passed	10	10/9/18
IN-BF-007-01-007	Alternative	SC-IN-BF-...	502.02 - Invalid document	Passed	10	10/9/18
IN-BF-007-01-008	Alternative	SC-IN-BF-...	502.02 - Continue Receiv...	Passed	10	10/9/18
IN-BF-007-01-009	Alternative	SC-IN-BF-...	504.01 - Select product n...	Passed	10	10/9/18
IN-BF-007-01-010	Alternative	SC-IN-BF-...	504.01 - Select product n...	Passed	10	10/9/18
IN-BF-007-01-011	Alternative	SC-IN-BF-...	504.01 - Missing Volumetry	Passed	10	10/9/18
IN-BF-007-01-012	Alternative	SC-IN-BF-...	504.01 - [Filter] & Today's	Passed	10	10/9/18
IN-BF-007-01-013	Alternative	SC-IN-BF-...	504.01 - [Change Doc]	Passed	10	10/9/18
IN-BF-007-01-014	Alternative	SC-IN-BF-...	504.01 - Status	Passed	10	10/9/18
IN-BF-007-01-015	Alternative	SC-IN-BF-...	504.01 - [04 Close Rec.]	Passed	10	10/9/18
IN-BF-007-01-016	Alternative	SC-IN-BF-...	505.01 - [01 Reservation]	Passed	10	10/9/18
IN-BF-007-01-017	Alternative	SC-IN-BF-...	505.01 - [02 Backorder]	Passed	10	10/9/18
IN-BF-007-01-018	Alternative	SC-IN-BF-...	505.03 - Select list	Passed	10	10/9/18
IN-BF-007-01-019	Alternative	SC-IN-BF-...	505.03 - Enter	Passed	10	10/9/18

On the right, the 'Detail' view for 'Main - Receiving against shipment' (IN-BF-007-01-001 (SC-IN-BF-038-C002)) is shown. It includes an 'Input' section with a list of steps (e.g., '301.01 SCAN RECEIVING AREA', '302.01 SELECT DOCUMENT TYPE') and an 'Output' section with a confirmation message: '302.01 SELECT DOCUMENT TYPE Confirmation Message : Receiving has been closed'. A 'Data Setup' section at the bottom shows configuration values like 'Receiving Bay Configuration: Set Receiving Job = 790' and 'Site Item Configuration : PutawayFromReceiving = true'.

# Integrated Implementation Platform - Training

An agile WMS allows businesses to **record**, **modify**, and **print** mobile processes and desktop usage flows for training and support purposes.

## Process Usage Flow – Receiving







# Next Generation of WMS Real-Life Examples of Operational Agility



A – Dry Ice Pod

B – Vial Trays

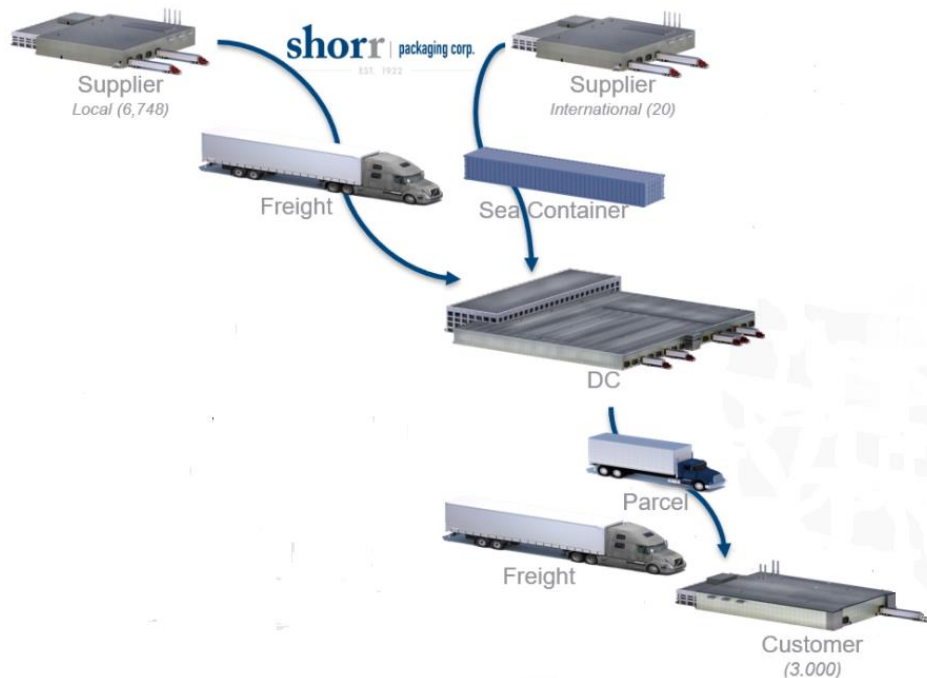
C – Inner Pack

D – Foam Lid

E – Thermal Shipping Container

Chapman's "Ice Cream" secured two medical-grade deep freezers capable of dropping to  $-80^{\circ}\text{C}$  ( $-112^{\circ}\text{F}$ ) to store **Pfizer-BioNtech vaccines**.

- Multi Site Agility
- Multi Site Rollout, 9 Sites



“SOLOCHAIN is infinitely configurable”

“The sky is the limit. We are no longer constrained by an old rigid WMS”.

“Traceability functions currently deployed are so slick and intuitive that everyone that sees it quickly understand how it works thus Shorr will gain immediate credibility by showing SOLOCHAIN, a tool to get the job done and an aid to sell our Services.

**James Pstrzoch**

National Implementations Manager



# Browns Shoes

- Automatic sorting system
- Warehouse Space Utilization
- Process Efficiency

**B***rowns*

KN△PP





# Gartner

## SOLOCHAIN top strengths \*

- Usability (Rank # 3)
- Adaptability / Configurability (Rank # 2)
- Implementation tools (Rank # 1)
- Manufacturing Extension / VAS (Rank # 1)

\* *Gartner ranking of the top WMS solutions worldwide  
(Source Gartner Critical Capabilities Report June 2021)*



# Thank You for Attending!



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