Change is the New Normal in Warehousing
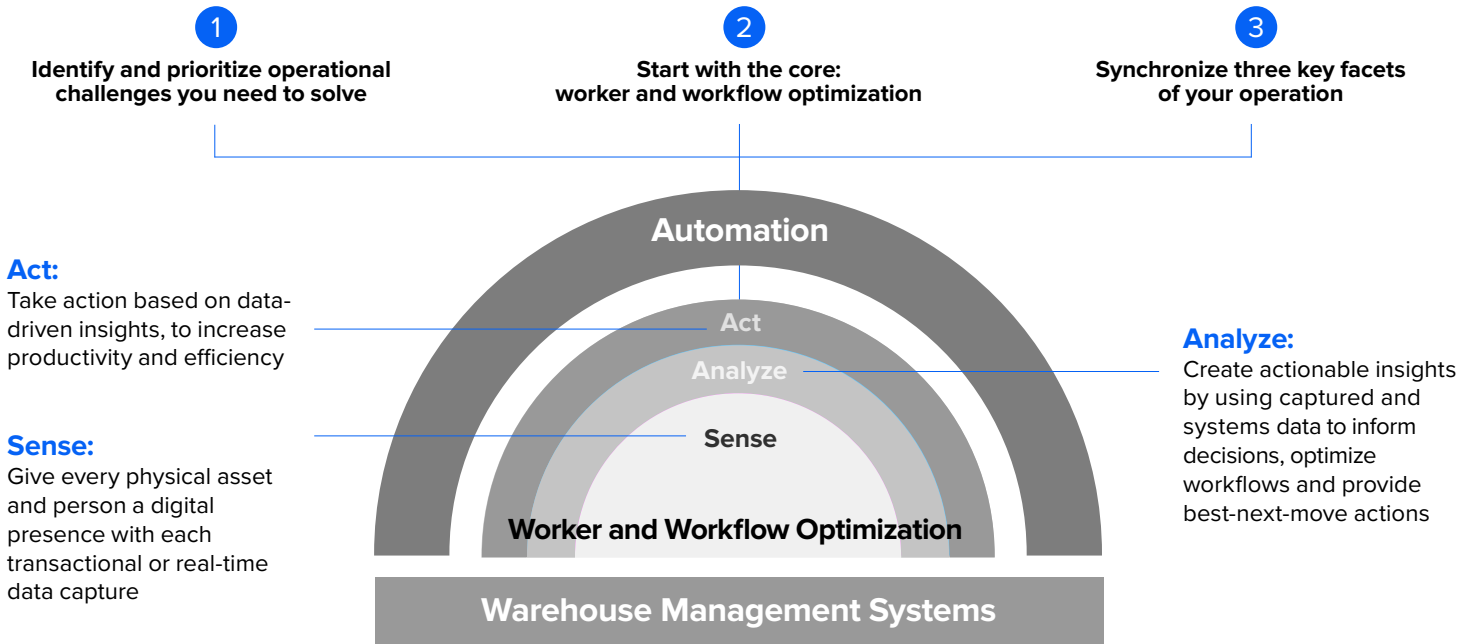
Disruption and volatility have put warehouse operators under pressure to adapt to continual change.

ValuTrack TECHNOLOGY SOLUTIONS

Which of these disruptions are you navigating?

| Rapid growth of e-commerce | Higher volume of orders | Rise in item-level fulfillment | Shorter delivery times | Unpredictable availability of inventory | Labor shortages | High turnovers | Employee safety concerns |

When Responding to Supply-Chain Disruptions, Start at the Front Line of Your Operations

1 Identify and prioritize operational challenges you need to solve

2 Start with the core: worker and workflow optimization

3 Synchronize three key facets of your operation

Automation

Act

Analyze

Sense

Worker and Workflow Optimization

Warehouse Management Systems

Act:
Take action based on data-driven insights, to increase productivity and efficiency

Sense:
Give every physical asset and person a digital presence with each transactional or real-time data capture

Analyze:
Create actionable insights by using captured and systems data to inform decisions, optimize workflows and provide best-next-move actions

The Path Forward is Best Achieved in Phases

Taking a phased approach allows you to increase operational visibility at your own pace, without upending operations.
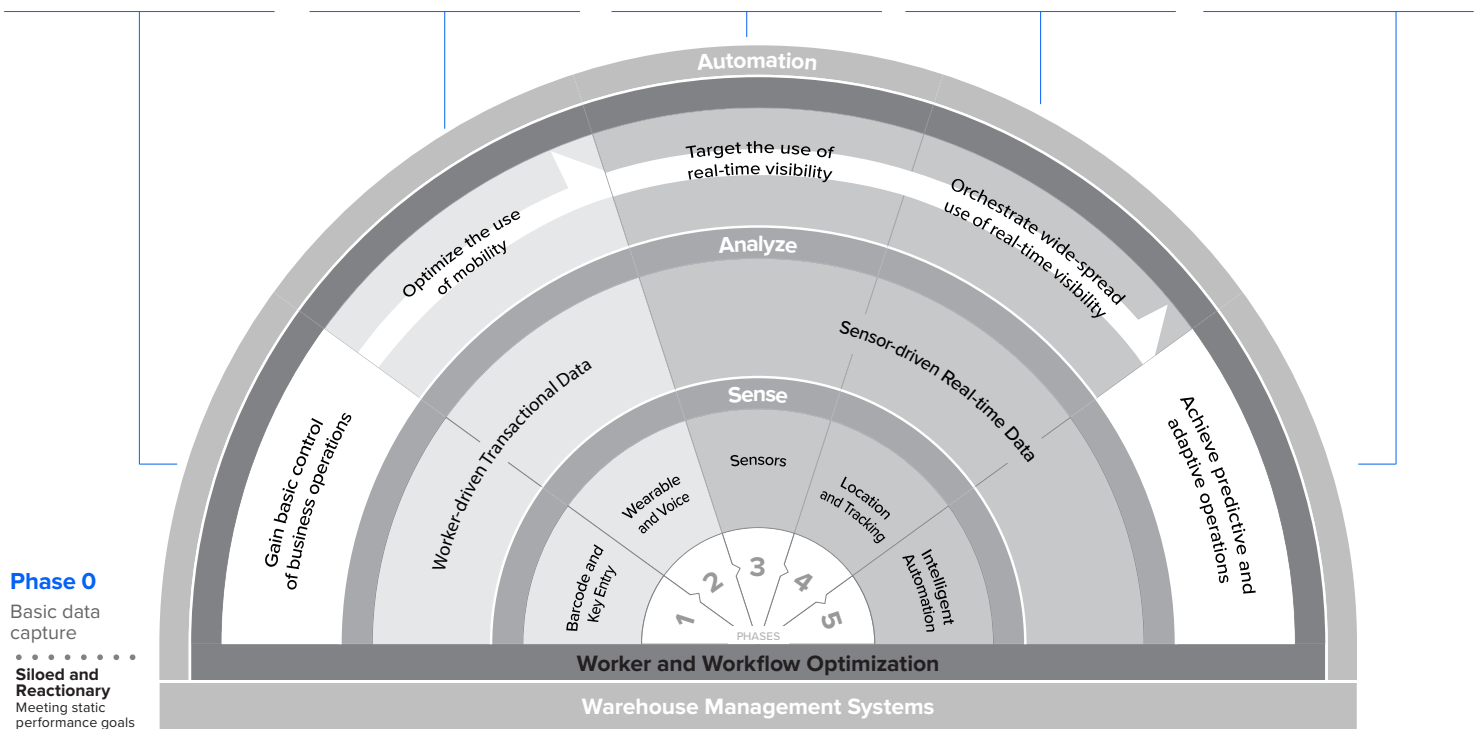
Plan Your Next Move with the Zebra Warehouse Maturity Model

Identify and prioritize operational challenges

How many do (or don't) we have?
Inventory inaccuracies result in operational inefficiencies

How do we handle more volume?
Higher order volume, more item-level picking and inventory moves increase daily transactions

How do we alleviate congestion points?
Worker-initiated, scan-based processes aren't fast or accurate enough

What's my best next move?
Unable to quantify decisions and optimize in the moment

How do we respond to quickly changing demands?
Being ten steps ahead is a necessity today

Phase 1
- Track every inventory move
- Connect each worker to your WMS with modern mobile devices

Phase 2
- Deploy devices to fit each task, increase comfort and effortlessly data capture
- Optimize WMS data for dynamic mobile workflows

Phase 3
- Automate data capture in targeted areas where compliance is critical
- Utilize labor efficiently by managing by exception

Phase 4
- Get operational visibility with real-time location data
- Deploy the closest worker or asset for the task
- Reduce steps in processes with automated alerts

Phase 5
- Fuse all sensor data sets together using intelligent automation
- Predict and adapt in real time

Phase 0
Basic data capture

Siloed and Reactionary
Meeting static performance goals

Diagram labels

Automation
Target the use of real-time visibility
Orchestrate wide-spread use of real-time visibility
Optimize the use of mobility
Analyze
Sensor-driven Real-time Data
Gain basic control of business operations
Worker-driven Transactional Data
Sense
Sensors
Location and Tracking
Achieve predictive and adaptive operations
Barcode and Key Entry
Wearable and Voice
Intelligent Automation
PHASES
1 2 3 4 5
Worker and Workflow Optimization
Warehouse Management Systems

Show me how to apply this framework in my operations

Contact us today! ›

Any Size, Any Challenge

Zebra's breadth and depth of hardware, software, solution and service offerings can address all the operational areas within your warehouse—resolving today's unique logistics challenges. The result: minimum risk and maximimum return on your investment.

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http://valutrack.com
8668258382

Your Most Accurate Inventory Yet

With solutions that give you visibility

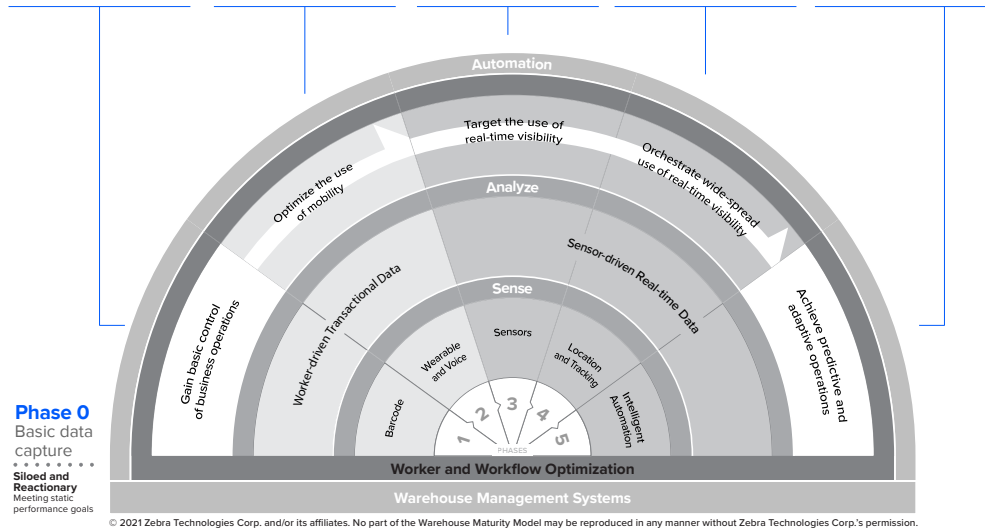**ValuTrack** TECHNOLOGY SOLUTIONS

The accelerated pace of e-commerce, paired with customers' on-demand expectations, is driving an urgent need to prioritize inventory visibility to constantly know the quantity, condition and utilization of goods and assets. To keep pace, you need every worker visible, connected and optimally utilized. Augment your workforce with the right technology and tools, purpose-built for your environments for faster fulfillment. Strategically power your way forward with the Zebra Warehouse Maturity Model to achieve your goals.

Boost Inventory Accuracy
for increased productivity and asset utilization

Phase 1
Move away from paper processes and capture cycle counts digitally-- eliminate the duplication of effort.

Android™ Handheld Mobile Computers with All-Touch Terminal Emulation, Ultra-rugged Scanners and Zebra DNA productivity tools.

Phase 2
More cycle counting per shift with ergonomic scanning, large intuitive touch screen and team communication. Replace damaged or lost labels on the spot.

Touch Computer, Mobile Printer, Zebra Workforce Connect™.

Phase 3
Eliminate counting errors from the start by automating data capture for critical inbound processes.

UHF RFID

Zebra Fixed and Handheld RFID Readers and Printer/ Encoders.

Phase 4
Gain nearly 100% location-level accuracy for goods and returnable assets for a broad area.

ATR7000 RTLS Reader, Zebra MotionWorks™ Warehouse* and Zebra MotionWorks™ Asset.

Phase 5
Go beyond counting inventory. Data fused together, gives front-line cycle counters the full picture of the state of the inventory.

Partner or customer applications, Zebra Data Services APIs.

Automation

Target the use of real-time visibility

Optimize the use of mobility

Orchestrate wide-spread use of real-time visibility

Analyze

Worker-driven Transactional Data

Sensor-driven Real-time Data

Sense

Gain basic control of business operations

Wearable and Voice

Sensors

Location and Tracking

Achieve predictive and adaptive operations

Barcode

Intelligent Automation

1 2 3 4 5 PHASES

Phase 0
Basic data capture
Siloed and Reactionary Meeting static performance goals

Worker and Workflow Optimization

Warehouse Management Systems

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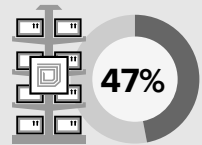
Modernize your business with the proven strategic framework of the Warehouse Maturity Model. Zebra's broad portfolio of purpose-built hardware, software solutions and services will boost your bottom line and help you meet your KPIs.

Contact us today to configure an inventory management solution to support your Phase of warehouse modernization.
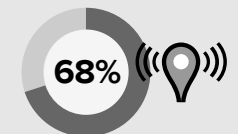
Move Forward With Confidence, Backed by Zebra

*May not be available in all regions. Contact your local Zebra sales representative or partner.

Did you Know?

47%

of warehouse decision makers **report the use of RFID for cycle count** and inventory validation today.

Source: Warehousing Vision Study research, Zebra Technologies, 2019

68%

of organizations **reported utilization of inventory tracking functionalities** of their warehouse management system today.

Source: Warehousing Vision Study research, Zebra Technologies, 2019

ZEBRA

Put Accuracy on Center Stage

Leverage pack-leading innovation

ValuTrack
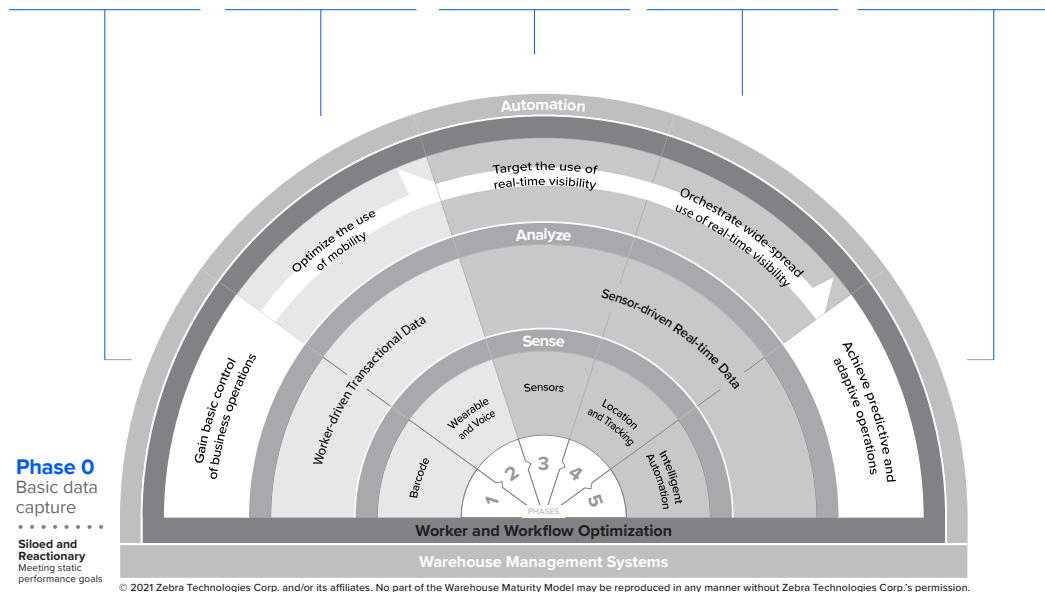TECHNOLOGY SOLUTIONS

The accelerated pace of e-commerce, paired with consumers' and business partners' on-demand expectations, is driving needs for greater levels of visibility on the outbound dock. To keep pace, you need every worker visible, connected and optimally utilized. Augment your workforce with the right technology and tools, purpose-built for your environments for faster fulfillment. Strategically power your way forward with the Zebra Warehouse Maturity Model to achieve your goals.
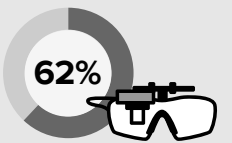
Ship Correct, Complete Orders Every Time

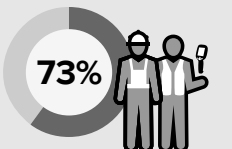Take a phase-by-phase approach to modernizing outbound operations:

Phase 1

Verify order accuracy, record your final inventory moves and print clear shipping labels that ensure delivery.

Ultra-Rugged Scanner and connected Desktop Printer.

Phase 2

Keep packing and shipping workers hands-free to easily handle and sort cartons, print color-coded labels on-the-spot and seamlessly communicate with their work devices.

Wearables, Mobile Printing, IQ Color Labels, Zebra Workforce Connect™.

Phase 3

Automate and document pack validations at distribution center for irrefutable receipt at retail stores.

UHF RFID

Fixed RFID readers and antennas positioned above conveyor to staging area.

Phase 4

Automatically identify outbound shipments in each staging location in real time; send an automatic alert to the staging manager if any orders are incomplete.

Zebra MotionWorks™ Warehouse* and Real-time Location System (RTLS).

Phase 5

Fuse multiple sensor and transactional data inputs to power machine learning and intelligent automation to validate order readiness.

Partner applications and Zebra Data Services APIs.

Did you Know?

62%

Going hands-free will be the trend for **62%** of decision makers, as they plan to upgrade or add **wearable computers by 2022.**

73%

Worker augmentation paired with partial automation is preferred for packing operations by **73% of warehouse leaders.**

Automation

Target the use of real-time visibility

Optimize the use of mobility

Orchestrate wide-spread use of real-time visibility

Analyze

Sense

Sensor-driven Real-time Data

Gain basic control of business operations

Worker-driven Transactional Data

Wearable and Voice

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Barcode

Intelligent Automation

Achieve predictive and adaptive operations

1 2 3 4 5

PHASES

Worker and Workflow Optimization

Warehouse Management Systems

Phase 0
Basic data capture

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Siloed and Reactionary
Meeting static performance goals

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Modernize your business with the strategic Zebra Warehouse Maturity Model framework. Zebra's broad portfolio of purpose-built hardware, software solutions and services will boost your bottom line and help you meet your operational key performance indicators.

Move Forward With Confidence, Backed by Zebra

Contact us today to make a plan to optimize your outbound operations – phase-by-phase

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ZEBRA

Modernize Your Picking Processes

With Proven Solutions that Deliver Agility and Accuracy

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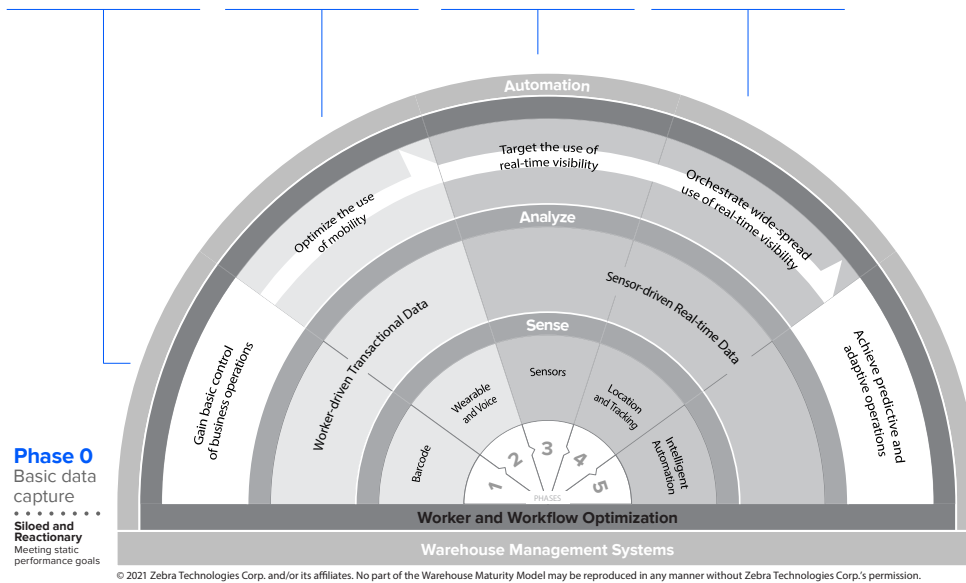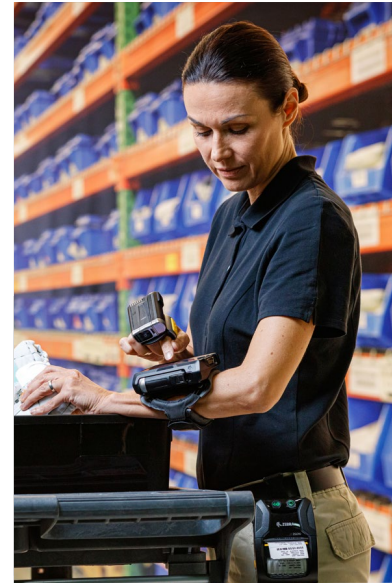TECHNOLOGY SOLUTIONS

The accelerated pace of e-commerce, paired with consumers' and businesses' on-demand expectations, is driving a new level of urgency to advance picking operations. To keep pace you need every worker visible, connected and optimally utilized. Augment your workforce with the right technology and tools, purpose-built for your environment. Strategically power your way forward with the Zebra Warehouse Maturity Model to achieve your goals.

Get the Momentum you Need to Move Picking Operations Forward

Boost productivity with phase-by-phase picking workflow optimization

Phase 1

Replace paper pick tickets and update inventory electronically without duplicative work.

Android™ handheld mobile computers with All-Touch Terminal Emulation.

Phase 2

Optimize workflows and keep workers hands-free, heads-up and in their picking zone to maximize productivity.

Zebra FulfillmentEdge™ paired with wearable mobile computing, scanning and printing.

Phase 3

Eliminate manual scanning during pallet picking.

UHF RFID

Fixed RFID reader in portal area exiting pallet storage location.

Phase 4

Reduce manual material movement to pack stations to increase picking productivity.

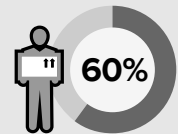Zebra FulfillmentEdge™ orchestrates workers and autonomous mobile robots (AMRs).

Did you Know?

50%

Picking operations can account for almost **50%** of warehouse labor and is often an area with frequent turnover – as high as **30%** annually.

Source: Commissioned McKinsey Intelligent Automation Study for Zebra Technologies, 2019

60%

Sixty percent of warehouse decision makers reported labor recruitment and/or labor efficiency and productivity are among their top challenges.

Source: Warehousing Vision Study, Zebra Technologies, 2019

Automation

Target the use of real-time visibility

Optimize the use of mobility

Orchestrate wide-spread use of real-time visibility

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1 2 3 4 5
PHASES

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Meeting static performance goals

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Move Forward With Confidence, Backed by Zebra

Contact us today to make a plan to optimize your picking operations – phase-by-phase

ZEBRA

Receive with Next-Level Speed and Precision

Faster, error-free inbound operations

ValuTrack
TECHNOLOGY SOLUTIONS
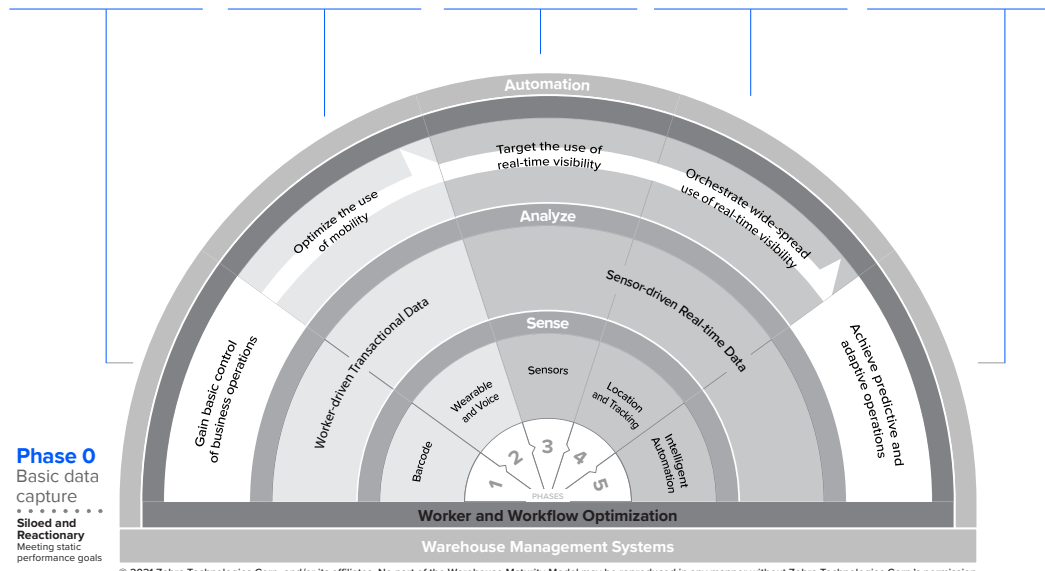
The pace of warehousing is accelerating today. To keep pace, you need every worker visible, connected and optimally utilized. Augment your workforce with the right technology and tools, purpose-built for your environments for faster fulfillment. Strategically power your way forward with the Zebra Warehouse Maturity Model to achieve your goals.

Optimize Your Labor and Workflows Starting at the Receiving Dock

Take a phase-by-phase approach to modernizing

Phase 1

Enable the use of advance ship notices (ASN) by mobile workers to receive, sort and label efficiently.

Android™ Mobile Computers, Desktop Printer with Battery, Ultra-Rugged Scanner, Zebra DNA.

Phase 2

Equip lift truck operators with task-specific devices to keep heads-up, focused and safe while unloading.

Vehicle-Mount Computers and Tablets with Ultra-rugged Zebra Workforce Connect™.

Phase 3

Automate receipt of goods as they are unloaded on conveyors or by pallet.

UHF RFID

Zebra Fixed RFID Readers and Antennas, Fixed Industrial Scanning.

Phase 4

Know with near 100% accuracy where assets are located in staging areas for faster, error-free put-away.

Zebra MotionWorks™ Warehouse* and Real-time Location Systems (RTLS) Technology.

Phase 5

Fuse multiple sensor and transactional data inputs to automate receiving decisions through intelligent automation.

Partner applications and Zebra Data Services APIs.

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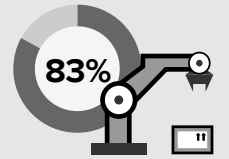Worker and Workflow Optimization
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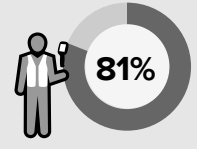
Move Forward With Confidence, Backed by Zebra

Contact us today to make a plan to optimize your inbound operations – phase-by-phase

Did you Know?

83%

Receiving is going to get more complex. Eighty-three percent report they will **increase number of SKUs carried by 2024.**

81%

By 2024, 81% of warehouse decision makers plan to **expand returns management operations.**

Source: Warehousing Vision Study, Zebra Technologies, 2019

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