ZEBRA

Modernize your Warehouse

To Meet Increasing Demand

Barcoding
BE EFFICIENT | ACCURATE | CONNECTED
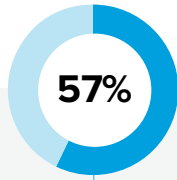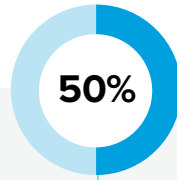
Did you know?

## In a study done with small and medium businesses:

77%
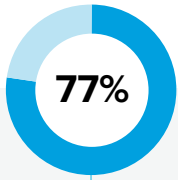
77% of warehouse decision makers believe equipping a worker with a device or partial automation is the most optimal balance for goods and receiving operations[1].
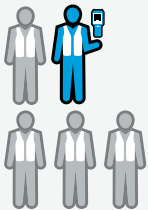
57%

57% of warehouse decision makers reported inventory management as their top current or expected challenge in the next five years[1].

50%

50% of warehouse labor is accounted by picking operations with frequent turnover—as high as **30%** annually[1].
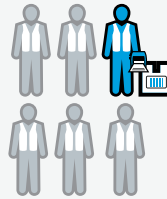
65%
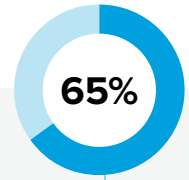
65% of warehouse decision makers anticipate an increase in the volume of items shipped in the future[1].

1 out of **5**

decision makers stated using handheld mobile computers with built-in barcode scanners for inventory management[1].

1 out of **6**
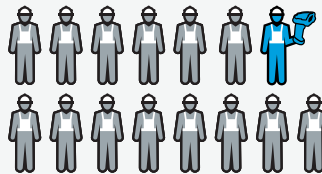
warehouses are using mobile barcode labels or thermal printers today for receiving operations, trailing industry-leading best practices[1].

1 out of **5**

warehouses are using wearable mobile computers today for picking operations[1].

1 out of **15**

warehouses are using rugged/ ultra-rugged scanners today for shipping operations[1], trailing industry-leading best practices.

Solving the
Technology Riddle

Overcoming Obstacles

Operators of growing warehouses consistently say that finding a technology solution is often as complicated as the solution itself. In other cases, expensive, overly complex systems create more problems than they solve. And even more frequently, the best solutions are out of reach or don't meet their unique business needs.
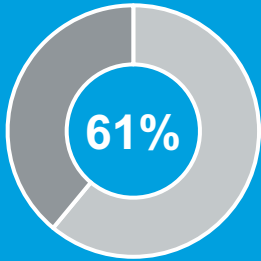
75%

plan to deploy new tech to stay competitive.[2]

73%

don't know where to start.[3]

Source: Zebra Technologies *Warehouse Vision Study*

What do you need to solve

to get to where you want to be?

Reduced labor force

61%

Plan to rely on a combination of humans and technology by 2024

Streamlining picking

60%
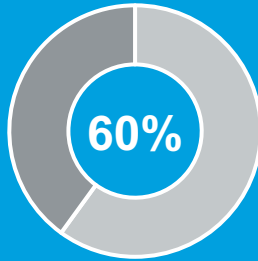
View labor efficiency and productivity as a top challenge

Turning around outbound processes

86%
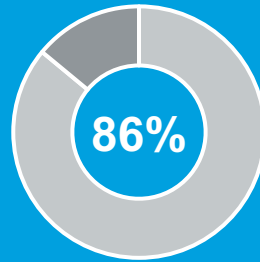
Plan to increase volume of items shipped by 2024

Reducing inbound congestion

83%

Plan to have Increased number of SKUs by 2024

Swiftly handling returns

81%

Plan to expand returns management operations by 2024

Where to Start
5 Simple Steps to Modernize Your Warehouse

1

Improve Operations

- Increase individual worker productivity
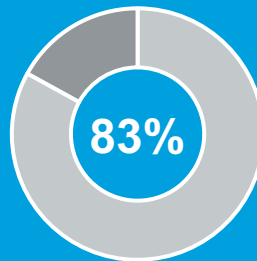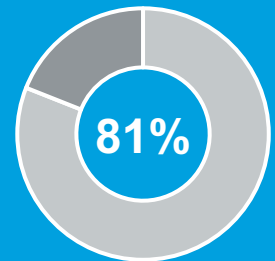- Upgrade your scanners
- Outfit employees with rugged, mobile technology
- Place printers strategically, not centrally

2

Connect Workers

- Increase team productivity and workflow conformity
- Enable team communications with the push of a button
- Boost picking efficiencies across multiple orders
- Speed employee training

3

Integrate

- Increase asset visibility and utilization
- Leverage data collection for greater visibility

4

Anticipate and Respond

- Leverage data to guide the "next-best-move" and decision making
- Collect operational data in real time for immediate insights
- Increase visibility across multiple operations

5

Prescribe and Adapt

- Proactively implement performance improvement
- Uncover and overcome operational bottlenecks
- Achieve better supply chain visibility

Step 1:
Improve **Operations**

The first rule of successful warehouse modernization is to start simple.

Begin by focusing on easy-to-implement changes that can help you quickly improve individual productivity and gain control of your basic business operations.

Key Considerations

Before deploying new technology, carefully consider these questions:

• What precisely do I need to accomplish each day, week, or month?

• How many stock-keeping units (SKUs) do I need to stock, control and handle?

• How fast do I need to fulfill my orders?

• Which employee processes produce inaccurate results?

• Is manual data entry or hard-to-use technology resulting in errors or productivity losses?

• Could employee processes be modified to increase productivity?

• Does my forklift driver have to get on and off the vehicle to scan or manually enter inventory data?

• Do my scanners read barcode tags on the first try or do they require multiple trigger pulls?
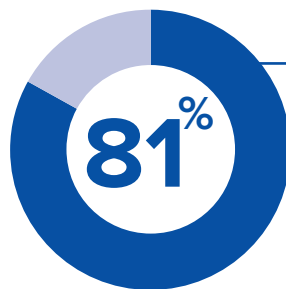
81% of SMB warehouse leaders agree capacity utilization is their biggest operational challenge now and within the next five years.[4]

Improve Individual Worker Productivity

A portfolio with breadth and depth to scale your operations

Android™ mobile computers help go beyond the basics

- Capitalize on modern OS advantages to increase your ability to adapt to new workflow complexities, enhance performance and on-board quickly
- Leverage powerful built-in intelligence of Mobility DNA productivity tools to get more accomplished

Ultra-rugged scanners for first-time data capture of 1D and 2D barcodes

- Get more scanning per shift with the advanced imager that reads barcode labels 60% closer and 35% farther**
- Capture reliable data regardless of label condition—torn, dirty, wet, shrink-wrapped
- Benefit from the time-saving intelligence built into the DataCapture DNA tools

Thermal printers for demanding work that demands the best

- Enable advanced connectivity, device management and privacy controls with Link-OS®
- Have the ability to scale as your operations grow or change with field-upgradable flexibility
- Utilize Print DNA productivity tools to streamline tasks and optimize device performance

Exclusive Zebra DNA software

Mobility DNA

- Easy terminal emulation app migration to Android
- Turn traditional telnet green screens into modern graphical touch screens
- Scan up to 100 barcodes with one trigger pull

DataCapture DNA

- Reset the bar for imaging performance—from 2D barcodes and mobile barcodes to OCR, images and documents
- Scan multiple barcodes at once but transmit only the ones you want

Print DNA

- Use NFC pairing with Android devices to gain access to printers quickly
- Make migration to Link-OS effortless, no rewriting necessary with Virtual Devices

Gain up to **10% more productivity** with the MC9300*

*Performance improvements measured by a third-party testing laboratory versus competitive devices
**DS3600-ER compared to similar models in this class

Keeping Your Workers Happy and **Productive**

Your employees are the most critical component of your operations.

Giving them technology that helps them succeed can not only increase overall operational efficiencies up to 10% or more,[5] it also reduces daily frustrations that lead to costly employee turnover. Arming your employees with the right technology will deliver multiple cost-savings and productivity benefits that lead to a quicker return on investment (ROI).

Improve Individual Worker Productivity
Putting the foundation in place for IT

Security updates on your schedule

- **LifeGuard™ for Android™** extends the lifecycle of your Zebra Android mobile computers up to 10 years
- **Link-OS® PrintSecure** helps assess and manage your connected printers with 30+ security settings

Zebra OneCare® Support Services sets the bar for service, support and repair

- Provide the level of support required for your business needs
- Get the most comprehensive service portfolio in the industry—from technical and software support and updates to comprehensive repair services that cover accidental damage

Zebra DNA tools streamline IT time

- **Visibility Tools** integrate with popular enterprise mobility management (EMM) solutions to preempt problems, remotely troubleshoot and validate set-up
- **Management Tools** simplify and accelerate staging and deployment of all devices—a simple scan programs mobile computers and scanners

VisibilityIQ™ OneCare® Powered by Zebra Savanna™

- Go beyond repair metrics to stay ahead of device service
- Extend support with a cloud-based tool that offers a color-coded quick reference dashboard
- View repairs in queue and historical
- Get technical support and keep track of Zebra OneCare contracts
- Use LifeGuard™ Analytics reports to ensure security patches are up-to-date

Give workers a fully-charged, healthy battery for **full-shift battery usage** PowerPrecision and PowerPrecision+ battery metrics are visible in your MDM solution or host application

Step 2: Connect **Workers**

Next, take a look at workflows involving multiple employees or tasks.

They key here is pinpointing operational areas where overall workflow improvements could increase speed, accuracy and productivity. Solutions that help workers execute multiple roles at once and increase visibility can help streamline operations well into the future.

Identify Disconnects

To uncover productivity bottlenecks, start by asking these questions:

• How can I help my teams communicate better and faster?

• When do my employees have downtime that could be turned into productive time?

• Which workflows could benefit from connecting employees directly to the warehouse management system (WMS) via mobile devices?

• Are existing processes or technologies too difficult for employees to use?

• How long does it take new employees to learn or complete common processes?
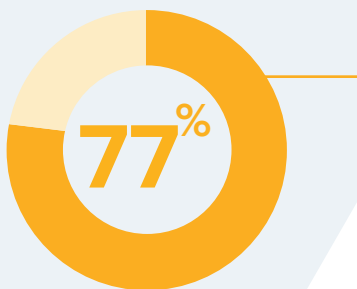
77% of warehouses have outfitted or plan to outfit workers with mobile computers, scanners and tablets by 2024.[8]
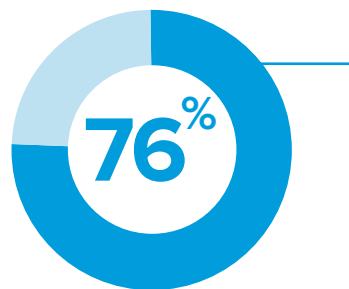
76% of SMB warehouse leaders agree that augmenting labor with technology and devices first is the best way to introduce automation into a warehouse operation.[9]

Achieve Great Team Productivity and Workflow Conformity
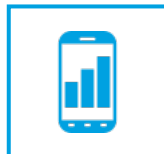
Expand your capabilities

Leverage task-specific devices and form factors

Unify team communication and mobilize managers

Focus on consistency and accuracy

Get workers to full productivity faster

Increase visibility of assets and workflow processes

Simplify remote device management

> **A super simple solution to a big problem.**
>
> — Kim Thompson, Master Machine

Using Zebra® IQ Color and Zebra thermal printing, Master Machine shipping staff had an easy visual to ensure shipments of like items were kept together and shipped to the right location — eliminating mis-shipments altogether.

# Achieve Great Team Productivity and Workflow Conformity

Expand your capabilities

Execute faster with the hands-free freedom of wearable solutions

Combine devices seamlessly to provide a multi-modal and ergonomically-designed solution for more than just transactional data capture

- Mobile computing
- Ring scanning
- Enterprise head-mounted display
- Visual- and voice-directed applications
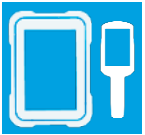
Touch-optimized user experience eliminates keystrokes

- Drastically reduce the number of interactions to complete tasks with graphical-user interfaces on larger-screen handhelds and tablets
- Mount a rugged tablet with cordless Bluetooth® or corded extended-range scanner to lift trucks and pick carts for a touch-optimize, large screen experience

Zebra Workforce Connect Powered by Zebra Savanna.™ Reach team members now, not later

- Instantly connect with one person or groups via push-to-talk, text or phone in one app
- Solve connectivity challenges with Voice Enablement Signature services help systems work to your advantage

Zebra FulfillmentEdge™ streamlines on-boarding and facilitates dynamic workflows

- Optimize order flow and workers instructions to enable more agility to accommodate urgent orders
- Utilize innovative edge technologies, like enterprise head-mounted display, to increase workers' accuracy of multi-order picks
- Reduce training and on-boarding time by at least 90% to keep teams consistently performing

Pick up to 24% more orders per day

using your current workforce with Zebra FulfillmentEdge™

Step 3: Integrate to Provide **Better Visibility**

After boosting productivity and improving overall workforce operations, it's time to take a good, hard look at your assets.

Automatically collecting asset-related data using Internet of Things (IoT) sensors and radio frequency identification (RFID) technology gives you a more complete view of your physical operations.

Consider the Power of Visibility

To find our how increasing visibility could improve your operations, consider:

- What processes could be streamlined using automated data capture instead of employee-driven data capture?

- How much time do workers waste tracking down lost assets or inventory?

- Could I use my assets more effectively if I had more visibility into operations? For instance, could I increase productivity by knowing exactly when my forklifts are not being used?

Integrate Greater Asset Visibility and Utilization into Your Operations

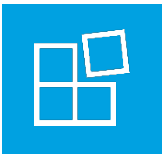## Begin your automated data capture journey

Identify processes where you lack visibility

Target assets and functional areas for automated data capture

Identify points where workflow compliance is critical

Begin managing by exception to reduce delays and congestion

See the big picture of your device usage

Manage technology in multiple locations

Start with automated data capture in dock operations

- Inbound inventory is received more accurately and allocated faster to customer orders.

- Outbound shipments have real-time verification.

- Regulated items have granular data automatically captured for supply chain track and trace.

Summary and Key Take-aways

- We're all challenged to adapt to a rapidly evolving economy

- Demands on operations are high to respond

- New technologies and solutions can help operators:
    - Lower labor costs
    - Increase individual worker productivity
    - Speed up training times
    - Boost picking efficiencies
    - Improve inventory management
    - Increase visibility and "automatically" error proof operations

- The pace of change in the supply chain will only accelerate

- Know that maturation is meant to be gradual. Strive for progress, not perfection.

- Zebra and our Partners are here for you

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