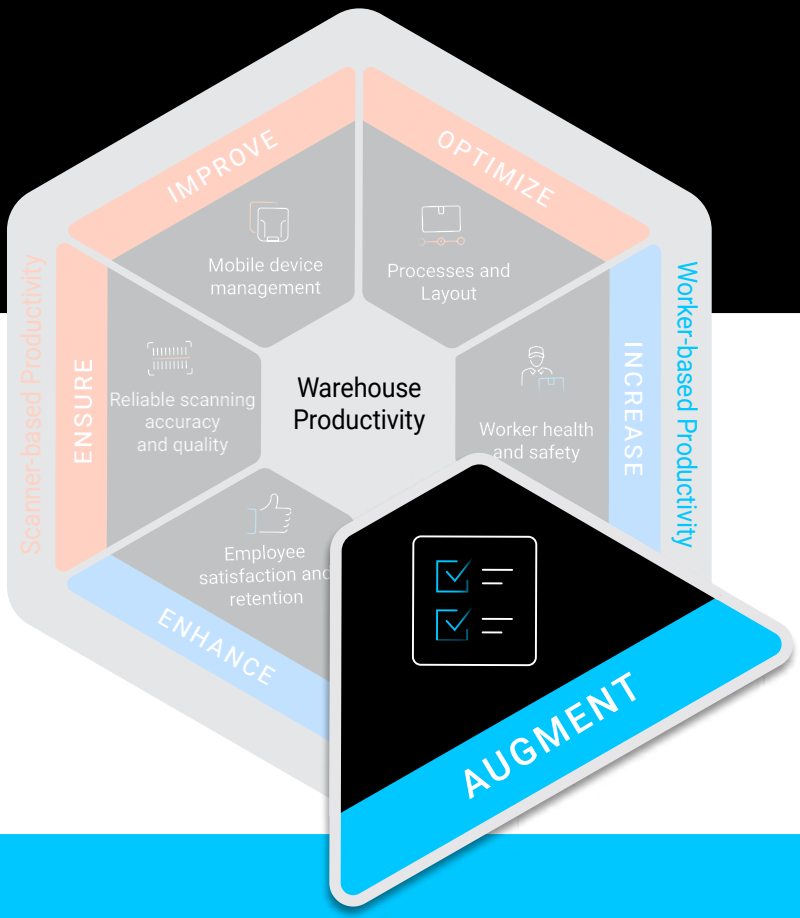
PROGLOVE

Where productivity starts

Solution brochure

Augment your worker guidance & workflows



Six solutions paths to warehouse productivity

Investment in any individual path is a strong lever for productivity improvement. Together, they optimize the building blocks of barcode scanning: speed; accuracy; worker satisfaction.

Improve productivity with guidance & workflows

It's more than guidance, it's a way of navigating to productivity. ProGlove technology enables an integrated display on the wearable scanner itself that provides both worker guidance notifications and data analysis to better align your shop floor workflows.

Error notification

33%

fewer scanning errors

Ease frustration

80%

agree new technology will meet e-commerce demands

Save steps

20%

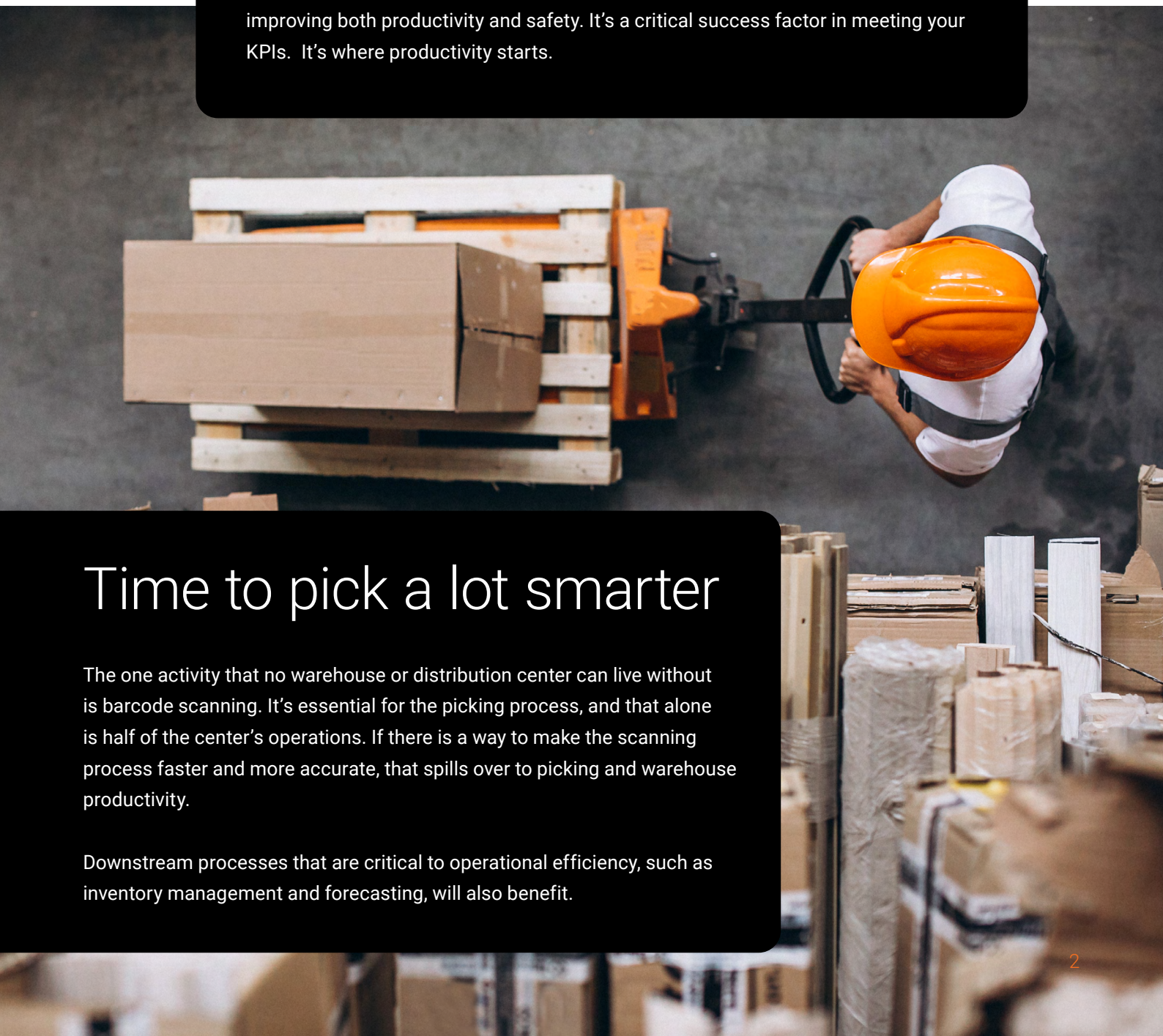
gain in warehouse productivity

Between a rock and a hard place

On the one side of warehouse operations, the corporate demand is loud, strong, and absolutely clear - increase productivity and ROI now, no excuses. Corporations are experiencing unrelenting pressure for improved efficiency, margins, profitability, and customer service*. The warehouse is central to meeting that demand.

On the other side, there is severe downward pressure on the ability of warehouse operations to become more productive. Supply chain disruptions, high turnover, inflation, reduced budgets and headcount may be the greatest, but not the least of these factors.

One answer is to improve worker guidance and workflows to save time while improving both productivity and safety. It's a critical success factor in meeting your KPIs. It's where productivity starts.



Time to pick a lot smarter

The one activity that no warehouse or distribution center can live without is barcode scanning. It's essential for the picking process, and that alone is half of the center's operations. If there is a way to make the scanning process faster and more accurate, that spills over to picking and warehouse productivity.

Downstream processes that are critical to operational efficiency, such as inventory management and forecasting, will also benefit.

Shop floor navigation

Whether single, batch, multi-batch, or zone picking and passing, each worker needs guidance to answer two key questions: was this scan correct; and is this the right item. The answers must be in real-time if they are to meaningfully affect productivity.

Wrong product packaging and delivery cause

17%

of inventory mistakes that lead to lost customers.*

~50%

of total time consumed in order picking, accounts for the travel time in a warehouse or distribution center.*

Workers also need an answer to the question, what do I do next? They may be given a printout and they may have access to a screen at their station, or perhaps they can access the information on their smartphone. Either way, they have to stop, maybe travel, refocus, and return to work.

Innovation and technology are needed to establish an effective dialog with the worker on the shop floor. Additionally, new ways must be found to optimize workflows.

The standard approach is top-down analysis, with the WMS providing the data and analysis. However, priorities and budgets preclude any immediate or substantive advancement in the near term.

The next wave of effective guidance and workflow optimization must address:

- Avoiding errors
- Minimizing exertion
- Saving steps
- Easing frustration.

80%

out of 1,400 IT and Operational Decision-Makers agree that over the next five years, new technology is needed to keep up with e-commerce demands*

It’s more than guidance, it’s navigating to productivity.

Helping workers achieve

ProGlove has focused our next-generation thinking on the potential of the individual worker to excel.

> "The human workforce is the center of our universe. We develop integrated hardware and software solutions that can interact with the worker to guide them through their day. Our technology can generate data that will help management to improve workflows, as well as worker satisfaction, safety, and contribution. We aspire to be the innovators, the disruptors that usher in a new era of logistics quality and productivity."
>
> **Ilhan Kolko, CPO, ProGlove**

From this unrelenting focus we have developed an ergonomically-designed, lightweight, hands-free scanning device that increases speed, accuracy, and enables:

- Interactive optic, acoustic, and haptic, real-time guidance
- New shop floor data to optimize workflows.

Interactive guidance

Perhaps the most critical feature of guidance is its interactivity, which enables workers to work much faster and smarter.

An OK / NOK signal disrupts all disruptions such as errors and delays, stopping the problem before it begins. The ProGlove device sits on the back of a worker's hand and the message is delivered in three ways: acoustic, optic, and haptic. There is no mistaking this immediate guidance. If the worker sees "wrong item", it gets fixed right then.

ProGlove technology enables an integrated display on the wearable scanner itself. Want to know where an item is to be stored, which products are included in a shipment, and where do I go next? It's not only on-screen at the station, it's also on the back of each worker's hand, no matter where they are in the warehouse.

Adapting workflows to reality

ProGlove technology has a productivity tool you didn't have before. It's real-time shop floor data, and it will allow you to reevaluate current workflows to better align with reality, making them much more efficient, and increasing worker satisfaction by guiding their day with logic.

This data is a window into what's going on in picking, sorting, and packing and will provide insights into how best to:

- Optimize worker movements
- Reallocate resources to distribute workloads evenly
- Identify and remove bottlenecks
- Document quality issues

"Thanks to ProGlove we are no longer tied to stationary processing stations but can process bulky goods anywhere in the hall. "

WERNER KUNERT

Deputy Head of Warehouse, DHL

Read the full DHL case study HERE

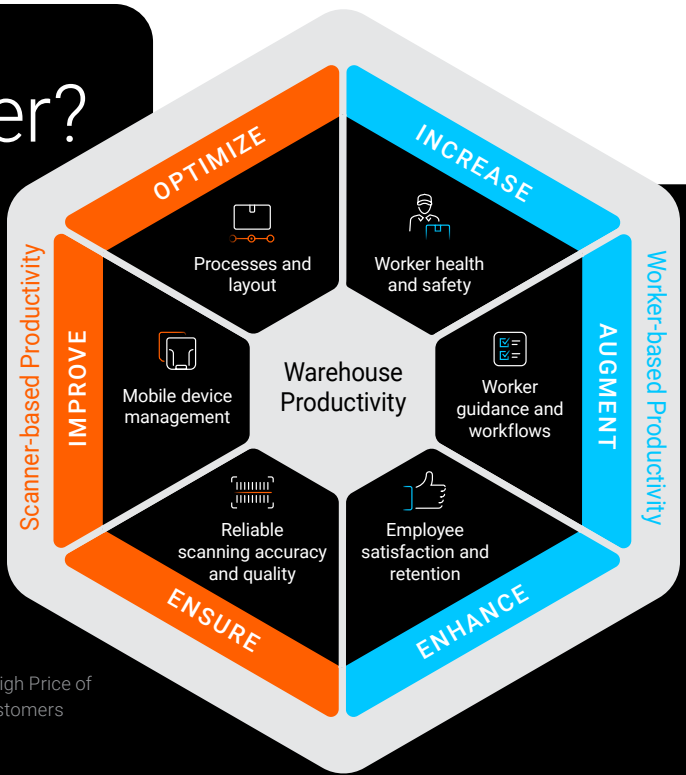
Starting with a checklist

- Recognize that warehouses must become more productive to meet customer demand.
- Focus on barcode scanning as a universal process – productivity gains here affect everything else.
- Improving worker guidance and workflows will improve productivity.
- Keep the worker in mind. To be effective, guidance, such as feedback on the scan, should be delivered in real-time, directly to the worker, haptically, optically, and acoustically.
- Investigate ProGlove's lightweight, wearable scanners to enable interactive communications, from feedback on the scan to information on the next task.
- To find opportunities to improve workflows, collect and analyze data from the shop floor using ProGlove Insight software.

Ready to work smarter?

Visit ProGlove.com to see how ProGlove addresses 6 individual paths to increased warehouse productivity.

1. Worker health & safety
2. **Worker guidance & workflows**
3. Employee satisfaction & retention
4. Reliable scanning accuracy & quality
5. Mobile device management
6. Processes & layout



Sources * How distributors can build momentum in a slowdown, McKinsey & Co, The High Price of Efficiency, HBR, The Future and How to Survive It, HBR, Are Your Undervaluing Your Customers