



Whitepaper: How Baha Mar Unlocked \$1.7M in Annualized Savings in 12 Weeks through Impruver's Warehouse Optimization Program



Figure 1: Aerial view of Baha Mar Hotel Resort in Nassau, Bahamas (2026). Source: Luxury Link, 2026.

1. Introduction: The Silent Cost of Warehouse Stagnation

In the global logistics and hospitality industries, the warehouse is often viewed merely as a cost center - a necessary but static space for storage. However, hidden within these walls is a common, silent drain on profitability: **Dead Stock**. For Baha Mar, a premier resort in Nassau, Bahamas, this issue manifested as an accumulation of nearly 200 pallets of non-moving inventory. This "stagnant capital" did more than just take up space; it choked operational flow, increased carry costs, and obscured inventory accuracy. This whitepaper explores how Baha Mar shifted this paradigm, transforming their warehouse team into a value-generating engine in just 12 weeks under the leadership of **VP of Operations and Supply Chain, Orane Blake**.



2. Methodology: Lean Six Sigma Powered by Impruver

The transformation was not achieved through simple cleanup, but through a rigorous, software-enabled **Lean Six Sigma (LSS) Green Belt Certification** program provided by Impruver University.

The Hybrid Approach

Unlike traditional consulting, which often leaves with the consultants, Baha Mar chose to empower its own frontline managers: Devaughn Rahming, Cohen Stevens, Dante Thomas, and Rodrique Aris, who earned their Lean Six Sigma Green Belt while executing projects that delivered measurable business impact.

The methodology relied on two critical pillars:

1. **Impruver University:** A digital learning platform that provided the "advanced toolset" of Lean management, including DMAIC (Define, Measure, Analyze, Improve, Control) and 5S methodology.
2. **Impruver Platform's Storyboard:** A structured software interface that allowed the team to set challenges, track weekly iterations against goals, and maintain a visible log of improvements using a PDCA-style format.

3. The Pillars of Optimization

The project addressed four distinct areas of the warehouse operation, each led by a newly certified Green Belt.

I. Eliminating the "Dead Pallet" Anchor

Devaughn Rahming (Warehouse Manager) and Cohen Stevens (Warehouse Supervisor) focused on the most visible waste: dead stock. By executing a successful "tent sale" and alcohol liquidation, they reduced dead pallets by **96%** (Off-site) and **75%** (Dry Storeroom) respectively.

- **The Result:** A 50% increase in financial and inventory capacity, allowing for a \$1M cost savings initiative across dry and alcohol categories.

Before Image



After Image



Figure 2: Before and after of dead stock elimination (2025 - 2026). Source: Baha Mar, 2025.

II. Precision in Inventory Management

Dante Thomas (Storeroom Clerk) tackled **Inventory Inaccuracy**, which was a persistent problem in the beverage storeroom. By replacing floor pallets with proper shelving and adding a "checker" to the counting process, he improved visibility and accountability.

- **The Result:** A **90% reduction** in inventory inaccuracy, uncovering \$150K in excess inventory variance.

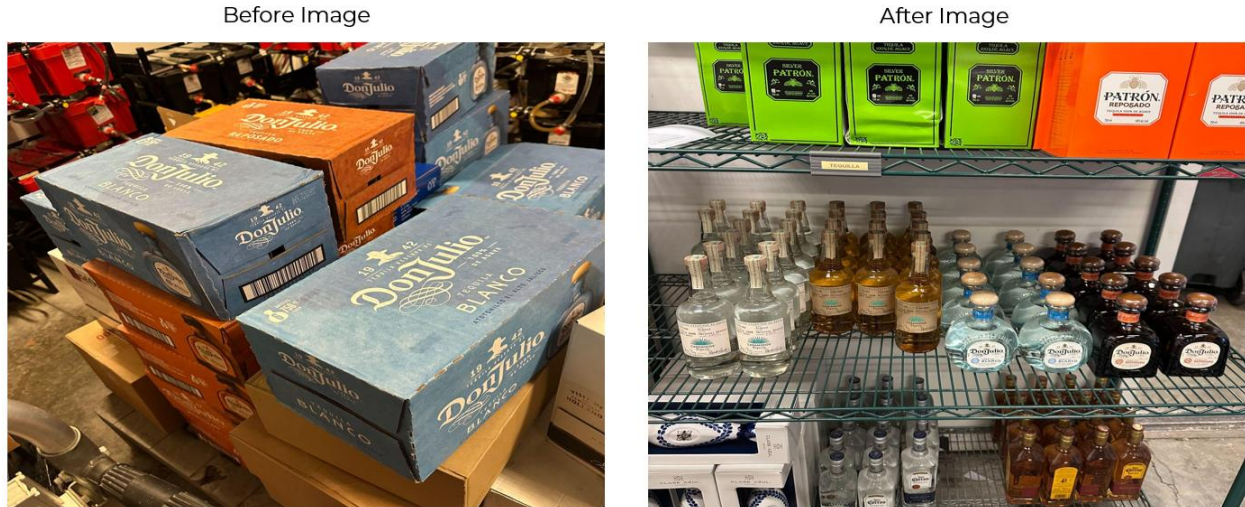


Figure 3: Before and after photos of stock itemization (2025 - 2026). Source: Baha Mar, 2025.

III. Maximizing Dock Throughput

Rodrique Aris (Dock Master) addressed the "pulse rate" of the warehouse: **Container Offloading Time**. By breaking down pallets by brand and distributing them directly to racks, he eliminated the waste of double-handling.

- **The Result:** Offloading time was slashed from **60 minutes down to just 10 minutes** per container—a 75% reduction in time waste.



Before Image



After Image



Figure 4: Before and after photo of warehouse flow optimization (2025). Source: Baha Mar, 2025.

4. Financial Impact Analysis

The total impact of the 12-week program delivered a **136X ROI**, a figure rarely seen in traditional operational overhauls.

Impact Category	Value	Description
Cash Impact	~\$200,000	Direct revenue generated from the sale of liquidated dead stock.
Cost Savings	\$1,442,000	Savings from capacity unlocks, reduced carry costs, and efficiency gains.
Total Impact	\$1,710,000	The combined annualized savings impact of the four Green Belt projects.

5. Conclusion: A Blueprint for the Industry

The Baha Mar project proves that persistent logistics problems - such as dead stock and dock congestion - are solvable through **internal leadership development**. By providing frontline staff with Lean Six Sigma tools and a software platform like Impruver to track their progress, organizations can achieve rapid financial results. Baha Mar didn't just clean a warehouse; they built a culture of continuous improvement that paid for itself 136 times over in a single quarter. Leaders like Orane Blake are creating a profound precedent that is transforming the logistics industry by applying a scientific approach to management and improvement.