



Inventory Transformation:
How the Regional Hospital
Horsens Achieved Operational
Excellence with **navify**[®] Inventory

Executive summary

Implementing **navify**® Inventory revolutionized operations at the biochemistry department at the Regional Hospital Horsens. Manual inventory management time was cut by 84%, and space needs for supplies were halved, significantly optimizing efficiency and utilization. Over 98% of Roche product orders transitioned to seamless management through the system, demonstrating substantial operational improvements.

The initiative enhanced process efficiency and achieved remarkable user satisfaction, with a score of 9.5, showcasing the system's effectiveness and user-friendly design.

HIGHLIGHTED OUTCOMES:

 Manual inventory management time was cut by **84%**

 Space needs for supplies were reduced **50%**

 User satisfaction scores **9.5**

Complex Inventory Management in Healthcare Settings

Healthcare supply chain and inventory management is a complex field that requires smart management of costs, accurate prediction of supply needs, and efficient use of space. Inventory management is relevant from the quality perspective in delivering patient-centric healthcare ¹. In U.S. hospitals, it's estimated that unnecessary supply chain expenses account for approximately \$25.4 billion in waste annually.² Not keeping track of supplies may lead to mistakes and waste, generating expenses for healthcare organizations and potentially affecting patient care. Challenges include ensuring enough supplies without overstocking and coordinating operations smoothly ^{1,3,4}.

Additionally, healthcare systems need to think about their environmental impact. Proper supply management can help reduce waste, greenhouse gas emissions and use resources more wisely, particularly regarding the emissions from transporting and storing supplies ⁵. Moving towards digital ways to manage inventory can offer solutions. These modern systems use data to make supply chain operations more efficient, reduce costs, and support environmentally friendly practices ^{2,5}.



Regional Hospital Horsens' Transformation with **navify**® Inventory

Pre-Implementation Scenario

Regional Hospital Horsens, a distinguished healthcare institution pivotal in the medical ecosystem, is responsible for conducting approximately 6500 daily tests on its cobas lines. It is handled by 70 professional laboratory staff and involves around 200 varied products. However, managing such a significant inventory was a daunting challenge.

Previously, manual processes carried out bi-weekly sometimes resulted in slight discrepancies in understanding the precise stock levels and requirements. Additionally, limited space and the challenge of managing lot numbers more seamlessly occasionally led the staff to utilize older lot numbers. This necessitated regular fine-tuning of orders and, at times, the need for additional reorders, adding layers of complexity to inventory management.

“Sometimes, it was challenging to gauge the precise amount of inventory that was lacking and the quantity required.”

Lisbeth Ejning, Bioanalyst

THE LAB AT REGIONAL HOSPITAL HORSENS:



Horsens Regional Hospital is a two-hour train ride from Copenhagen in the Central Region of Denmark



Part of a **13-department** regional hospital



6.500 tests/day



70 professionals



200 different products

Implementing **navify** Inventory: A Game Changer

After enduring these challenges, Regional Hospital Horsens implemented **navify** Inventory in March 2023. With an intuitive design and automated functionalities, **navify** Inventory became an integral tool to transform Regional Hospital Horsens' inventory management within a year.

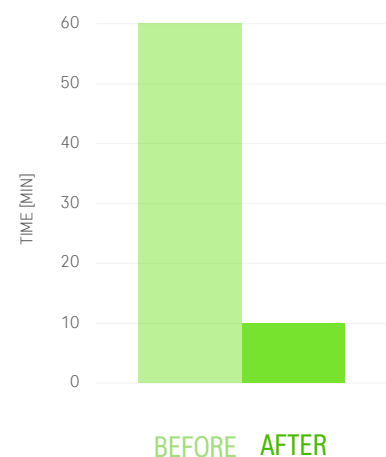
More than 98% of orders for Roche products were made using **navify** Inventory within the following six months. The ordering process was standardized, and the need for manual checks for supply availability was eliminated. A remarkable reduction in inventory management was observed, from an hour spent on the census to a maximum of ten minutes - signifying an 84% time reduction.

*“**navify** Inventory significantly reduced time spent on inventory management activities... and substantially enhanced the workflow.”*

Lisbeth Ejning, Bioanalyst

Significant improvement was realized in the form of reductions in manual labor, smaller delivery sizes, and, most importantly, an overall reduction in packaging waste. The implementation also brought unexpected benefits, such as control over supplies from Roche and other providers, and an optimized management of expiry dates.

TIME ALLOCATION IN ORDERING



-84%
Reduction in the
ordering time

Post-Implementation Impact: Transformative Benefits and High User Satisfaction

After implementing the **navify**® inventory, Regional Hospital Horsens moved from a tedious biweekly counting activity to an occasional once-a-month **inventory overview activity, which takes just 15 minutes**. Ordering activities, including checks and sporadically extra orders, **were optimized to only 10 minutes weekly**. This improvement in efficiency in inventory management was emphatically endorsed by customer feedback, showcasing 10 out of 10 for the ease of ordering.

A substantial reduction of physical storage space was accomplished: **50% for Chemistry and Immunochemistry supplies and two-thirds for Radiometer supplies**.

Overall, user satisfaction was high, scoring an impressive 9.5 out of 10, and the likelihood of recommending the solution scoring the highest possible mark of 10. This successful deployment made inventory management more efficient at Regional Hospital Horsens and paved the way towards its sustainability efforts.

KEY BENEFITS:

-  50% physical storage reduction
-  Inventory overview in 15 minutes
-  High user satisfaction: 9.5/10

Sustainability Through Smart Inventory Management

Implementing **navify** Inventory at the Regional Hospital Horsens revolutionized its laboratory operations and marked a significant step towards sustainability. This innovative inventory management system reduced individual deliveries and expiring inventory, supporting sustainability by reducing waste and improving resource efficiency.

Conclusion: Elevating Laboratory Efficiency with **navify** Inventory

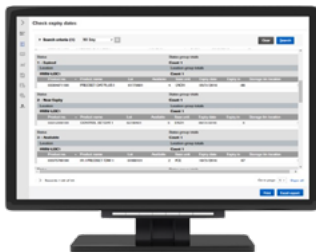
This whitepaper has elucidated the efficiency and operational advancements realized by Regional Hospital Horsens following the integration of **navify** Inventory. Emphasizing key improvements—time-saving in inventory counts from hours to minutes, streamlined order processes, reduced storage space requirements, and elevated user satisfaction—underscores the transformative potential of adopting advanced inventory management systems.

navify Inventory can be a substantial leap towards streamlined, efficient, sustainable laboratory operations. It presents an opportunity to enhance operational effectiveness and achieve strategic goals related to space management and user satisfaction.

Introducing **navify**® Inventory

navify Inventory is a cloud-based solution that optimizes lab inventory management using real-time data and insights. Key components include a portable handheld scanner for efficient tracking and a web-based application for effortless management and analysis of inventory data.

The handheld scanner accelerates product usage tracking, inventory management, and delivery and return processing with an in-built barcode reader. It allows both online and offline operations to ensure uninterrupted service.



The web-based application provides a user-friendly interface for seamless navigation. It enables product searches, order manifestation, inventory adjustments, and access to in-depth inventory reports. Multi-user functionalities and Microsoft Excel integration are added features.

➤ **navify** Inventory offers key benefits:

- 1. Simplicity:** User-friendly design for easy operations.
- 2. Transparency:** Real-time data for enhanced visibility and control over inventory.
- 3. Universal Compatibility:** Supports both Roche and products from other vendors.
- 4. Peace of Mind:** Automated and simplified processes for more focus on critical tasks.

Redefine your lab's inventory management with **navify** Inventory's promise of simplicity, transparency, and efficiency.

You can find more information [here](#)

References

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2. Balkhi B, Alshahrani A, Khan A. Just-in-time approach in healthcare inventory management: Does it really work?. *Saudi Pharmaceutical Journal*. 2022 Dec 1; 30(12), 1830-1835.
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4. Becerra P, Mula J, Sanchis R. Green supply chain quantitative models for sustainable inventory management: A review. *Journal of Cleaner Production*. 2021 Dec 15; 328, 129544.

