



# KØGE UNIVERSITY HOSPITAL

solution by  
**PSQR**

Read more about our logistic management system called STYR for the newly built University Hospital of Køge



# About PSQR

PSQR is a Danish software vendor providing **specialized industrial software** for Supply Chain Digitisation and Traceability related to compliance and business excellence.

The company partners with track and trace software integrators, solutions providers, consultancies and industry bodies to bring best-of-breed IT solutions to the world of traceability.

PSQR's mission is to empower manufacturers, corporations and governments across the globe with digital track and trace capabilities and the ability to tell the true story of the origin, journey, whereabouts, and consumption of products and resources across the supply chain.





# About the **KØGE HOSPITAL**

The newly built University Hospital of Køge has opted for an innovative and flexible logistic management system STYR to maintain the proper prioritization flow and relieve staff from administrative and manual tasks.

By implementing the STYR system - developed by the track and trace software experts at PSQR - the University Hospital of Køge managed to solve a number of recurring issues within healthcare.

# STYR Case

The University Hospital of Køge approached PSQR with a need for a modern, fast, and reliable solution for hospital equipment distribution.

As the hospital is transporting thousands of products that differ vastly, there was an ongoing necessity for automation and control over the order flow and prioritization of orders.

With the new AMR (Autonomous Mobile Robot) system, the hospital needed a system to automatically control incoming orders and deliveries and carry out the orders.

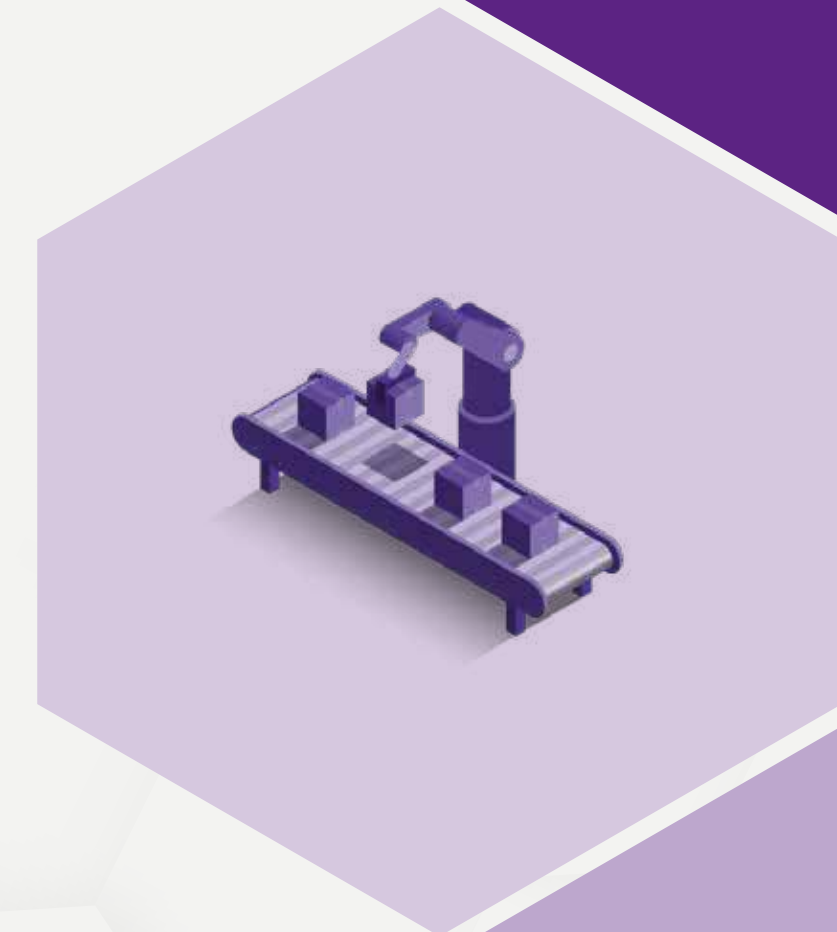


# STYR Case Challenges

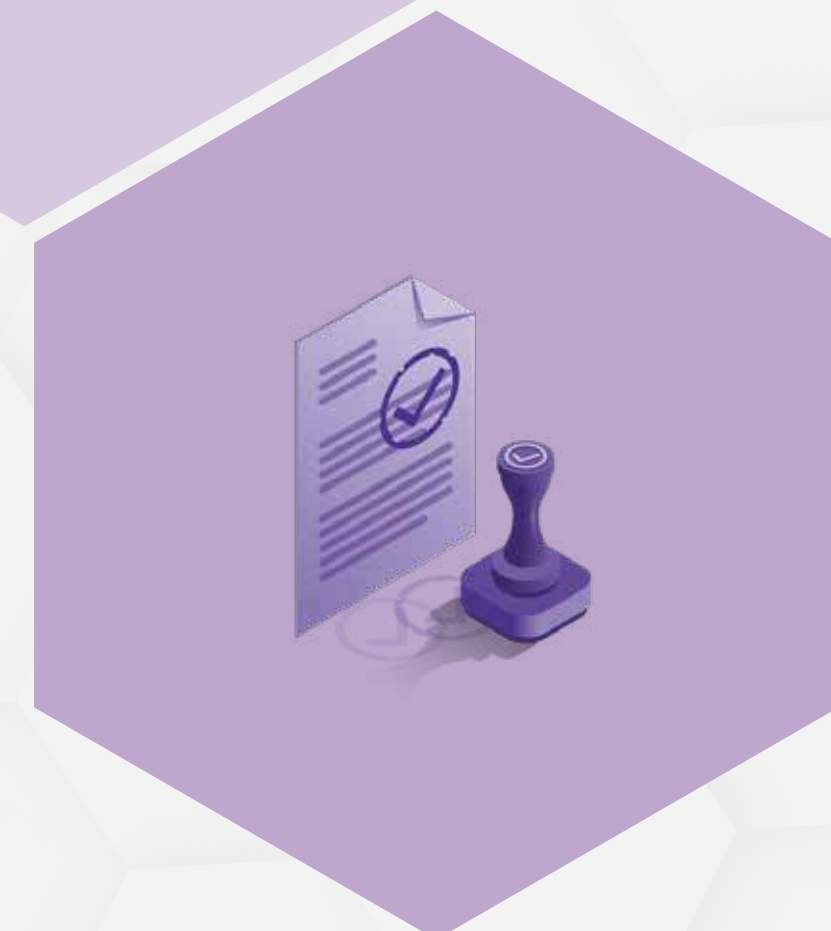
Building and flexibly adjusting the plans of product prioritization for everyday operation for different time slots and product categories.



Sequence flows of goods differ depending on the various conditions like product type, time, destination, return path, etc. It is impossible to define all of those up front, so STYR is adjusted and allows flexibility in the field of sequence setup.



An Active Directory authorisation and group rules must apply due to the infrastructure of Region Zealand being Microsoft-based.



# STYR Case Challenges



The hospital is supplied by different companies, therefore, STYR allows a flexible future integration possibilities and also a user interface for those without their own logistic IT systems.



Integrating and coordinating the flow of products with underlying Physical Transport Systems that manage the physical movement of the goods. The orders for product movement are optimized to maintain system availability and throughput.

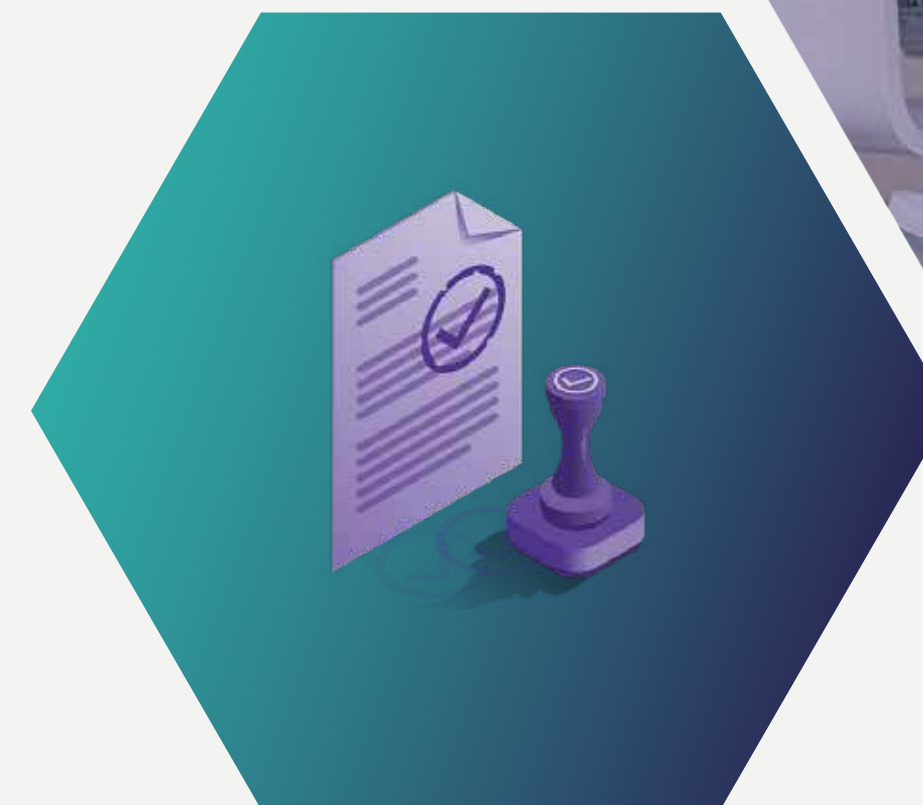


The logistic system collects, stores and connects all the information about logistic events and every alarm event sent to the system from other hospital systems like Security System or Physical Transport Systems. Alarms are flexible too, as the hospital is new, and a lot of interconnecting systems are still in the delivery phase.

# Project Goal

## Visibility and compliance through traceability

- Enabling delivery of goods *when* needed and *where* needed to reduce storage needs
- Items can be tracked both upstream and downstream, ensuring total visibility
- Compliance with operational excellence standards as well as the corporate social responsibility goals



# The Solution & Case Outcome

## **Delivery prioritization**

STYR gives control in prioritization - it is a system that automatically carries out the orders according to the priorities and orchestrates the movement of the products to and within the hospital. The system allows the most important/critical orders to be forwarded as transport orders.

## **Time management**

STYR solution, to a large extent, takes away the need for human involvement. Accompanied by a notification service, the staff is also given a way to optimize and organize the time spent on delivery tasks. Furthermore, STYR also automates and sends aid for patients through FUO (Fælles Udsyrs Ordning).

## **Monitoring**

STYR can, through the EPCIS event tracking system, notify the staff when orders are coming and are ready for pickup. Moreover, STYR monitors and notifies when empty wagons will be needed for the “automated-waste-chute” flow.



# The Solution & Case Outcome

## **Systems' Decoupling**

STYR's flexibility and the ability to integrate and simultaneously control several different systems reduces the need for additional system implementation that would often intertwine.

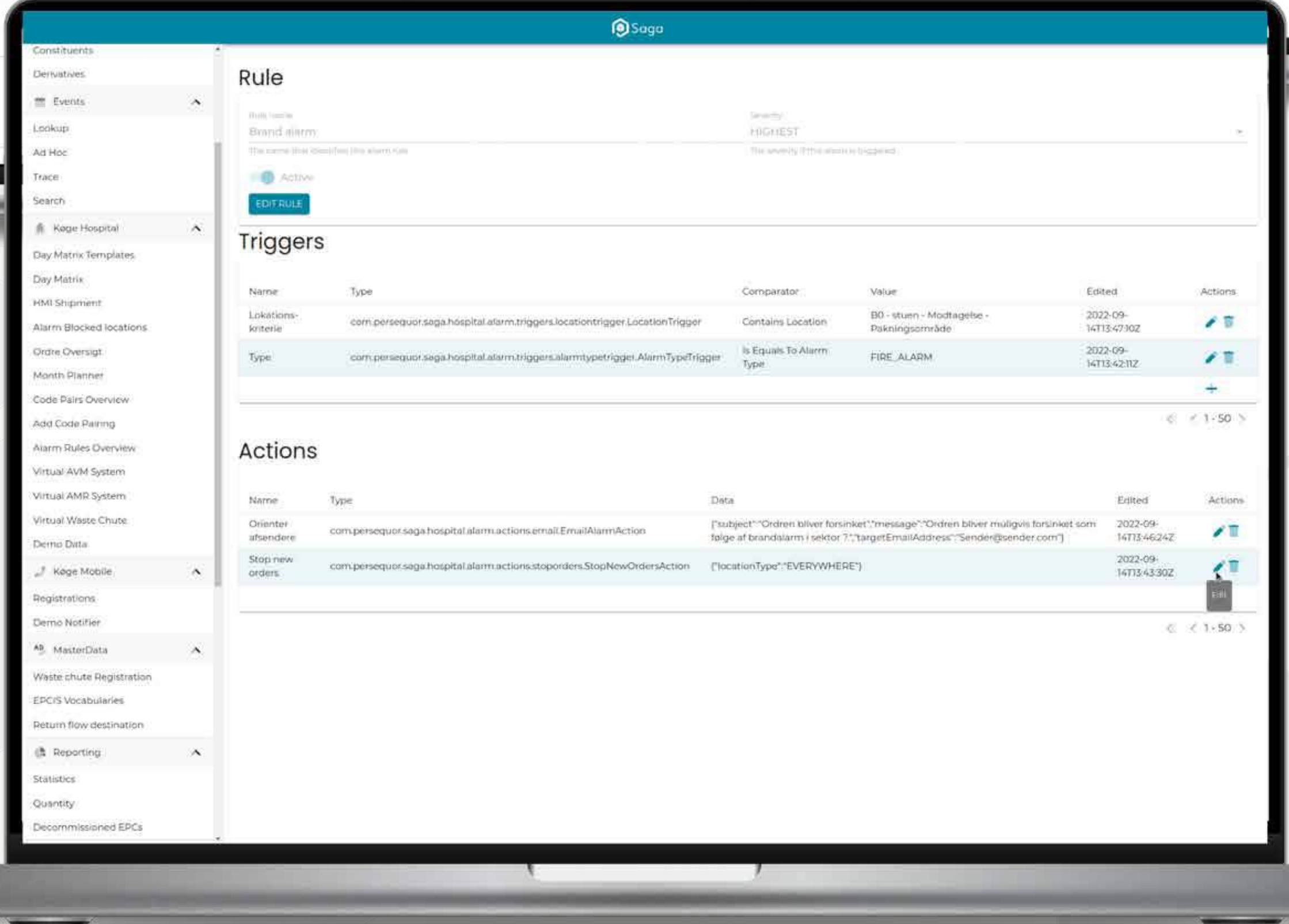
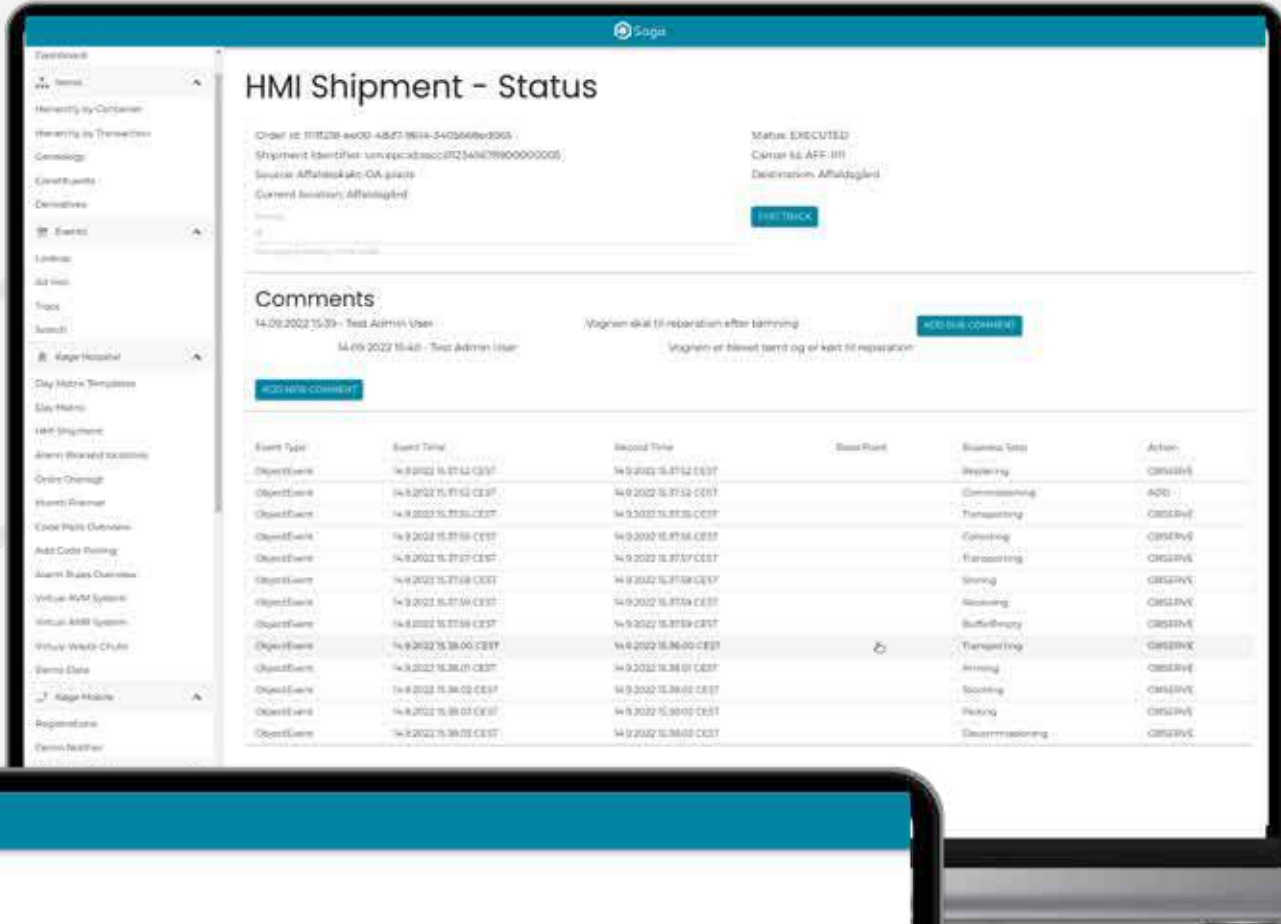
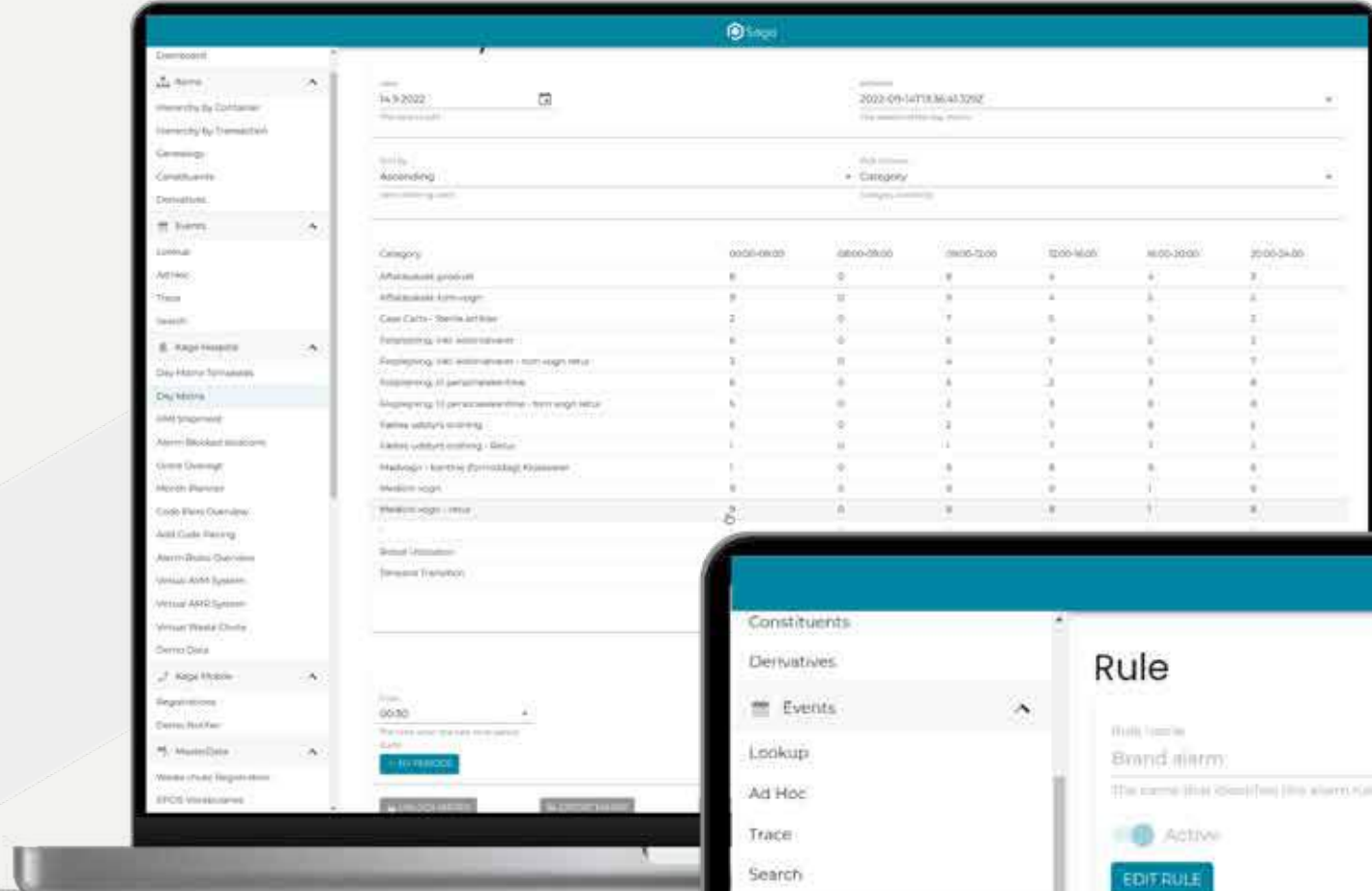
## **Business Intelligence**

Through the BI features, STYR provides information for making better management decisions and informs the right people at the correct times with the exact information they need. This allows the staff to carry out their tasks in an optimized way.

## **Crisis reduction with the Alarm Repository**

STYR system is recording alarms in the form of the EPCIS events created internally by Saga. Alarm Rules allow system rules to be set up for assigning the action, severity, and name based on the timestamp, type, and location of the fired alarm.

# The Solution



# Benefits of the Solution

1

## Complex Orchestration

**Saga Enterprise** enables the very complex hospital orchestration setup to ensure patients are served in the best possible way, and as economically as possible.

2

## Flexible Setup

**Saga Mobile** allows them to have a flexible setup in day-to-day operations without disrupting the workflow of the individual employee.

3

## AMR Control

STYR has the ability to control and orchestrate hospital's AMRs as well as provide the key decision makers with all the relevant information needed for facilitating informed decisions.

4

## Automated Logistics System

With the EPCIS events as the main driver behind the STYR system, PSQR has created an automated logistics system, able to prioritize and arrange the medical equipment delivery accordingly.

5

## Alarm System

By setting up alerts and sending notifications about sending and receiving wagons to the relevant personnel, Saga has helped improve prioritization and time management.



*As a project manager at the University Hospital of Køge, I have had the privilege of working with PSQR on our logistic management system implementation, that manage thousands of products which differ vastly.*

*From the outset, it was clear that their Saga application was a complete match to our logistic transformation towards automation and product control. The delivery prioritization feature has been beneficial in ensuring timely and efficient delivery to various departments, while the crisis reduction feature has helped us to mitigate risk and improve overall safety.*

*One of the most impressive things about PSQR is their commitment to delivering a solution that truly meets our needs. They worked closely with us throughout the implementation process, providing us with valuable guidance and support, and ensuring that we were able to optimize the system to fit our specific requirements.*

*I highly recommend PSQR to any hospital looking to streamline their operations and improve their supply chain management. Their expertise and dedication to collaboration makes them an invaluable partner, and we are thrilled with the results of our project.*

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