ROTHBAUM
CONSULTING ENGINEERS

uvex



More transparency in the warehouse thanks to a digital twin

Targeted improvement measures to boost warehouse performance at the central logistics centre



From the digital twin to transparency regarding influencing factors

The uvex group is an international manufacturer of protective and safety products for work, sport and leisure. The company operates its central logistics centre at its Rednitzhembach site, which features an automated high-bay warehouse and an automated small-parts warehouse.

During the site consolidation and the ramp-up of the new logistics centre, fluctuations in performance occurred within the operational warehouse processes. Performance had already improved noticeably, but there was still a lack of the necessary transparency regarding the specific influencing factors.

As part of the project, Rothbaum Consulting provided clarity on the key drivers of warehouse performance and established a prioritised basis for targeted measures. The strategic and operational EWM app enables uvex to track the impact of these measures in day-to-day operations and to further develop warehouse management in a sustainable manner.

ROTHBAUM
CONSULTING ENGINEERS

From unclear relationships to specific influencing factors

Challenge

Following the consolidation of several warehouse sites in Rednitzhembach, the new logistics centre failed to achieve the desired throughput. Uvex lacked the necessary insight into the impact of order structures, process variations and control parameters to identify targeted measures for stabilising operational performance.

Implementation

Rothbaum Consulting created a digital process twin in Celonis based on the Rothbaum SAP EWM app and supplemented this with targeted optimisation workshops. This made it possible to identify influencing factors, assess and prioritise weaknesses on the basis of data, and translate these into concrete measures.

Results

The digital twin and the Rothbaum EWM app have brought real-world process flows and influencing factors to light. This has enabled 15 areas for improvement to be identified and translated into specific actions. At the same time, the EWM apps provide uvex with a central platform for monitoring over 20 warehouse KPIs and for directly assessing the impact of the measures.

60 Mio.
warehouse tasks analysed

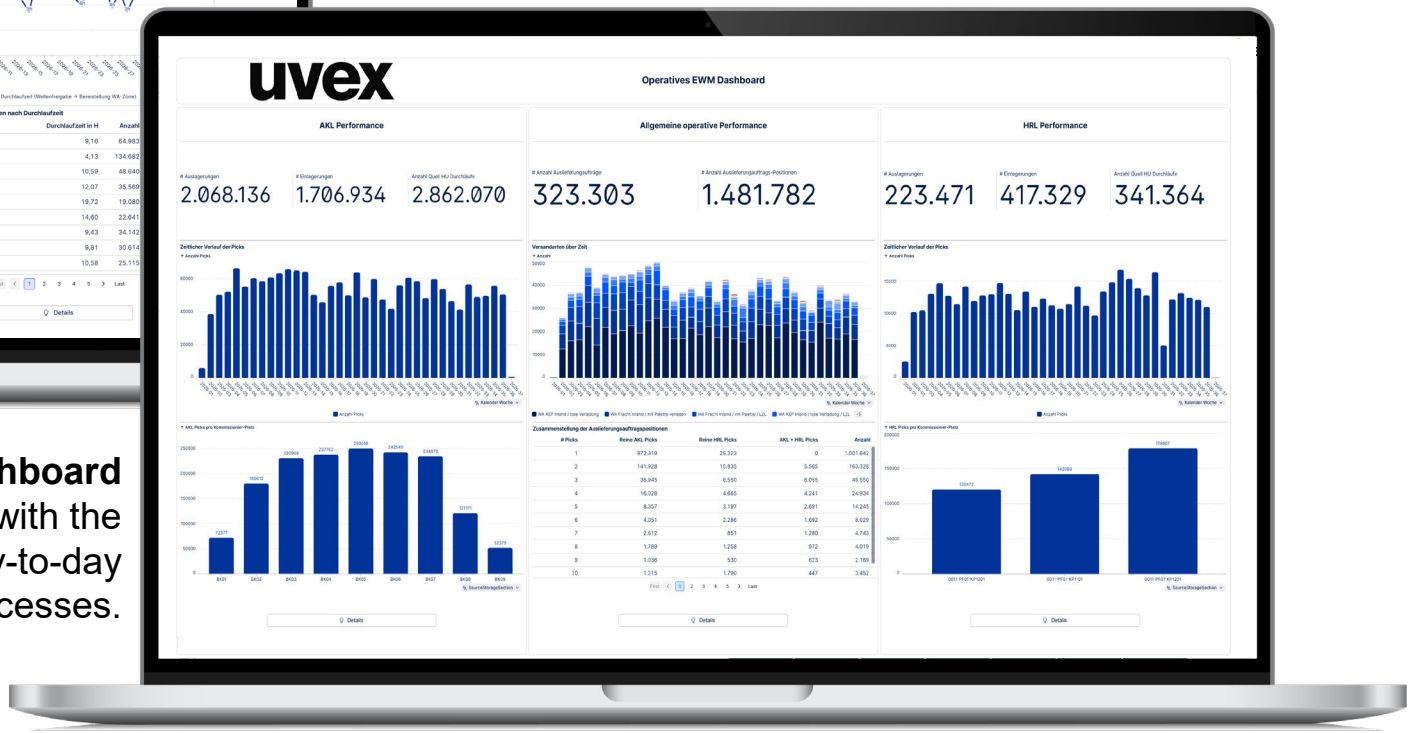
Digital twin
provides transparency regarding influencing factors

15
specific measures

Two EWM apps for strategic and operational transparency



Strategic Dashboard
Brings together all relevant information and key performance indicators for management.



Operational Dashboard
Provides the operational departments with the relevant information for the day-to-day management of warehouse processes.

“With Rothbaum Consulting, we have used data to visualise the operational interrelationships within our new logistics centre. The clear actions and dashboards provide us with a robust basis for further stabilising and sustainably improving our warehouse performance in a targeted manner.



Thomas Heinicke
Director of Group Logistics /
CEO uvex Group Logistics GmbH
UVEX GROUP Logistics GmbH



ROTHBAUM
CONSULTING ENGINEERS

Detailed results

- With the help of the digital process twin, real-world warehouse processes were analysed on the basis of data, and operational influencing factors were made transparent.
- Thanks to the Rothbaum SAP EWM app and Celonis, 15 areas for improvement were identified through confirmatory and exploratory data analysis.
- For each area for improvement, specific, coordinated measures were devised for operational, process-related and system-level optimisations.
- Strategic EWM app for the comprehensive management of key warehouse KPIs.
- Operational EWM app providing transparency regarding process flows, weaknesses and the impact of implemented measures on day-to-day operations.
- Clear recommendations for action regarding the sequential implementation of prioritised measures.
- Guidance on the introduction and effective use of the dashboards.

Uvex was provided with a robust database, clearly prioritised areas for action and specific measures to stabilise and further develop its warehouse management in a targeted manner.



Your contact person

Dr. Clemens Wolf
Senior Manager

Office Frankfurt

clemens.wolf@rothbaum-consulting.com

ROTHBAUM
CONSULTING ENGINEERS