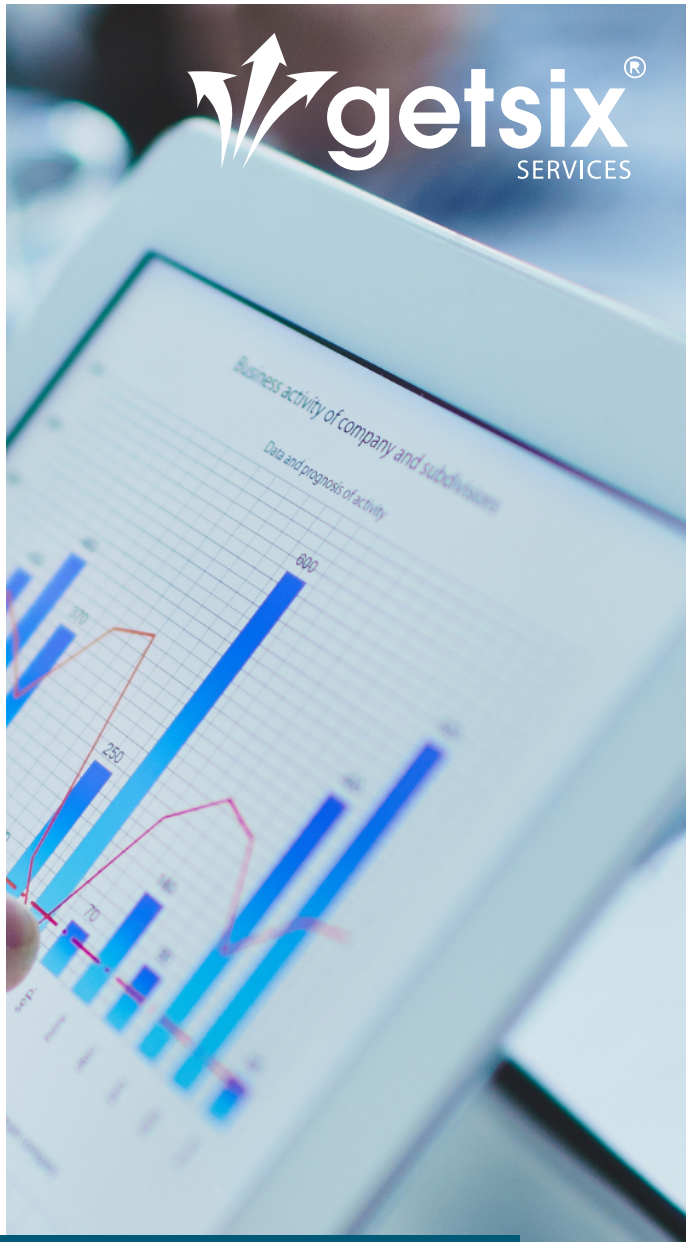


DEVELOPMENT OF A MANAGEMENT DASHBOARD FOR LOGISTICS KPIS IN THE WAREHOUSE PROCESS USING POWER BI

CLIENT

Since 2019, we have been collaborating with a logistics company in Poland, providing data analysis and reporting services. From the outset, the company emphasized the need for advanced tools to monitor and optimize warehouse processes.

SECTOR: Logistics and Warehouse Management

BUSINESS NEED

The company's management required an effective tool to monitor key logistics indicators of the warehouse process, such as order picking time, inventory levels, delivery timeliness, loading and unloading times, and employee performance metrics. The dashboard was used during morning management meetings to analyze the main logistics process indicators, enabling the streamlining of warehouse operations and supporting data-driven decision-making based on real-time insights.

IMPLEMENTED SOLUTIONS

As part of the project, we developed an advanced management dashboard in Power BI that integrates data from various warehouse and logistics systems, providing a comprehensive view of warehouse operations. The dashboard enables real-time monitoring of key performance indicators (KPIs) and helps identify areas that require optimization.

COMPETENCIES UTILIZED IN THE PROJECT

- Microsoft Dynamics 365 Business Central
- Power BI
- Accounting at getsix®

PROJECT IMPLEMENTATION STEPS

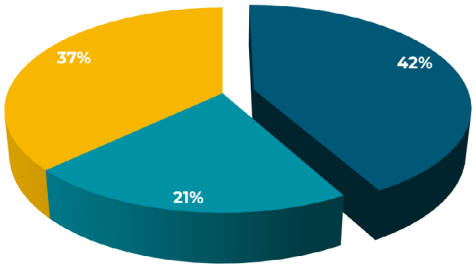
1. **Integration of warehouse systems:** We integrated warehouse and logistics management systems with Microsoft Dynamics 365.
2. **Automation of data collection:** We implemented mechanisms for automatic retrieval of data related to warehouse processes, ensuring their real-time updates.
3. **Creation of interactive dashboards in Power BI:** We developed an interactive dashboard in Power BI that presents key performance indicators such as order picking time, inventory levels, delivery timeliness, loading and unloading times, and employee performance. This dashboard displays indicators in various perspectives, such as ACT (Actual), YTD (Year-to-Date), and vs LY (versus Last Year). This enables managers to analyze the main logistics process indicators in different time contexts during morning meetings.
4. **Subscription:** The system automatically sends reports in PDF format to relevant individuals and allows for easy printing, ensuring that all stakeholders have access to the most up-to-date information. The dashboard can also be displayed on warehouse screens, with data automatically refreshing in real time. This allows shift managers to continuously monitor key performance indicators and respond quickly to changes, contributing to improved operational efficiency and better warehouse process management.
5. **Training and support:** We conducted training sessions for the management team to ensure effective use of the new tool and provided technical support during the implementation phase.

ACHIEVED RESULTS

- **Increased operational transparency**: Management gained full and up-to-date insight into key performance indicators of warehouse processes.
- **Improved efficiency:** Identifying areas requiring optimization enabled the implementation of changes that enhanced the efficiency of warehouse operations.
- **Faster decision-making:** With real-time access to data, management was able to make quick and informed decisions, contributing to better inventory management and increased inventory accuracy.

RESULTS ACHIEVED THROUGH THE DEVELOPMENT OF AN ADVANCED MANAGEMENT DASHBOARD IN POWER BI

* BREAKDOWN BY MAN-HOURS



- Increased operational transparency
- Improved efficiency
- Faster decision-making

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