SHP HARMANEC A.S.

Case Study: TSS System Implementation

M2M SOLUTIONS

CASE STUDY

SHP HARMANEC A.S.

SHP Harmanec is a long-established manufacturer of pulp and paper products and part of the SHP Group, one of the leaders in the hygiene paper sector in Central and Southeastern Europe. The plant focuses on the production of tissue paper, ensuring a continuous flow of materials and daily logistics operations

- **Location:** Harmanec, Slovakia
- **Function:** production of tissue and hygiene papers
- **History:** founded in 1829, part of the SHP Group since 2002
- **Operations:** material supply, internal logistics, and handling of finished products

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BACKGROUND

Ever growing demand and planned growth of production capabilities demanded implementation of more efficient processes for outbound goods planning.

Previous system of planning of incoming trucks to the outbound ramp did not assure their steady and balanced utilisation within a day nor a week.

Unevenly spread arrivals and loading of trucks could cause delay delivery of goods to customers.

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GOAL

ESSENTIAL FEATURES OF THE REQUESTED SYSTEM:

- Data management without the use of Excel spread sheets
- Ensure even distribution of truck arrivals by planning them into pre-defined time windows
- Simple and quick reporting of information needed for decision making
- Efficient information sharing among carriers and suppliers (SHP Harmanec)

REQUIREMENTS

- Control over processes related to management of goods loading
- Goods loading and dispatch optimisation
- Provide access to required transports for registered carriers allowing them to sign up into pre-defined time windows
- Simple and quick reporting of information needed for decision making
- Allow for planning of transports between the warehouses to increase single warehouse goods dispatch more efficient
- Integration with the central ERP system ESO enterprise

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TSS

OUR SOLUTION

First version of the TSS system has been delivered only 3 months after contract signature in autumn 2016

- A system of planning into predefined time windows allows to plan goods loading in separate warehouses or loading bays of a company
- The system utilizes information from the main ERP system. It provides access and the ability to register for transports and plan them into time windows to carriers, who transport goods to the customers
- TSS allows to plan and optimize transports between warehouses and also to plan time windows for unloading of goods that SHP Harmanec purchases for further sale

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BENEFITS

- Saving of an entire work shift on the goods inbound floor
- Increased efficiency of goods and material inbound processes, stabilization and standardization of these
- Simple way to watch transport affectivity, fulfillment and delays
- Stabilized and standardized processes on outbound
- Seamless transport efficiency (CPU calculation, delays) and quality monitoring

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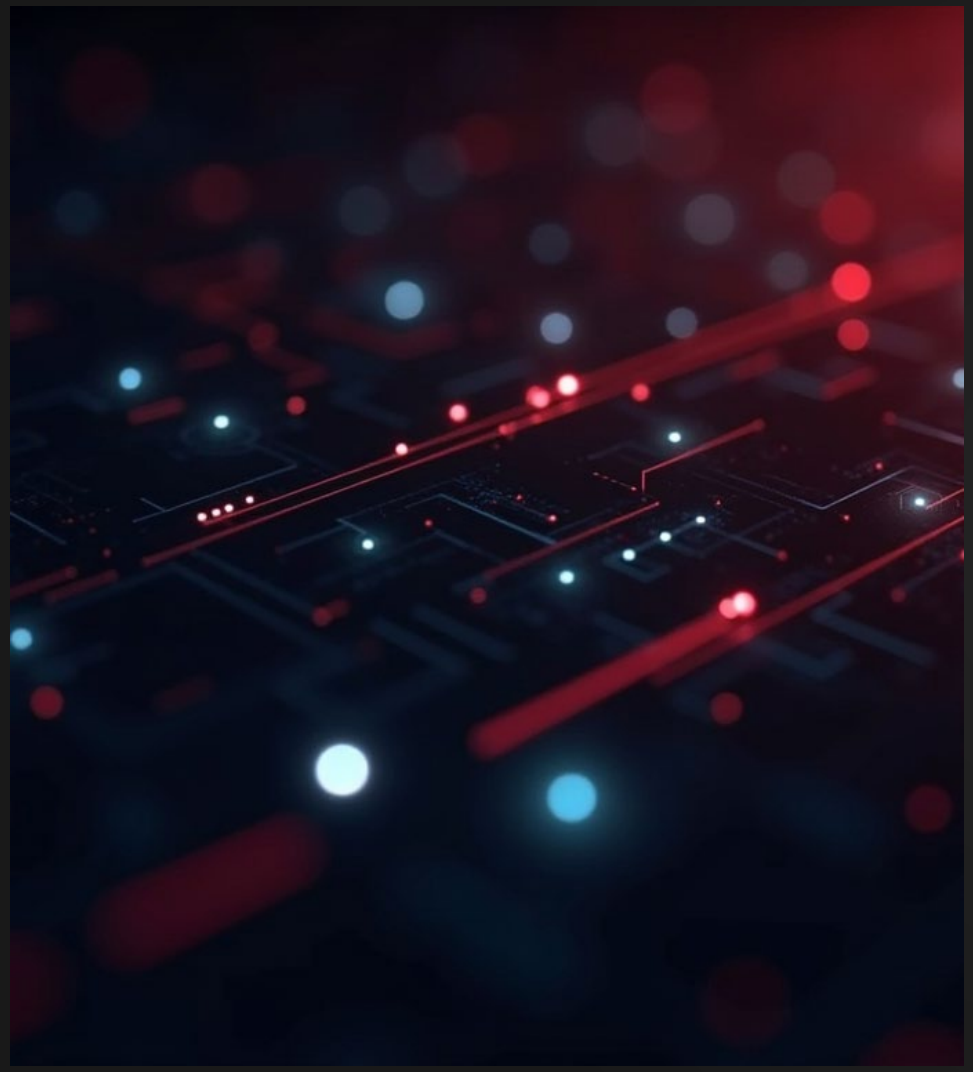

BENEFITS

- Improved relationships with carriers
- Elimination of costs hidden in processes
- Firm control over number of trucks on the inbound and considerable reduction in unexpected trucks
- 20% boost in number of expeditions
- Reduced transport cost (by 15-20% yearly), unplanned production downtimes due to unsuficient logistics and stock levels

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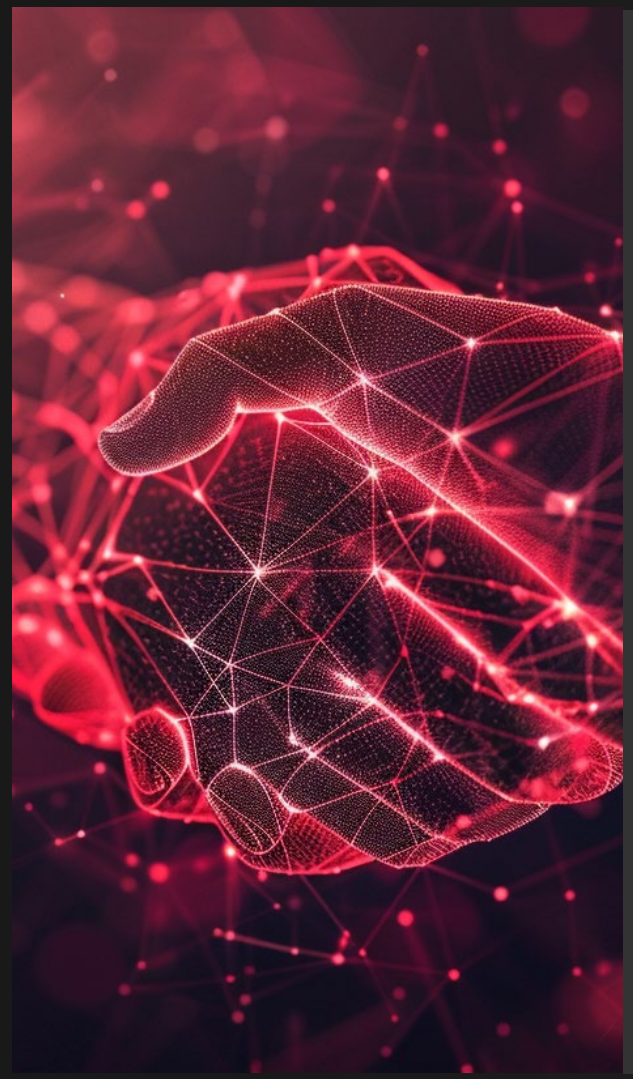
RESULTS



EXPANDING COOPERATION AND FURTHER DEVELOPMENT

Following the successful implementation of the PIEx system, we expanded the system with additional functionality in the subsequent period:

- Transport and Production Kanban
- Packaging Catalog
- Advanced Reports and Data Analysis
- Inventory
- Integration with the central SAP HANA ERP system

In addition to our collaboration on the PIEx system, we have implemented our **OEE (Overall Equipment Effectiveness)** product at Whirlpool in Poprad, which is used to measure equipment utilization efficiency.

Our collaboration is far from over; in the future, in addition to expanding existing systems—such as Waste & Scrap Management—we plan to implement **Manipulate to Light (M2L)** technology, which will visually guide operators when handling components.

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COOPERATION

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