Virtual Logistics

Real-time 3D logistics cockpit and 3D simulations for optimized logistics

Dynamic and transparent control of intralogistics in real-time and in 3D

SAP® Premium Certified
Integration with SAP Applications

SAP Silver Partner
The 3D Cockpit is used to display live data from the SAP system. The visualization ranges from simple evaluations or data collections to complex and individual statistics. Different tools enable the real-time monitoring of transport tasks and stock levels. The 3D representation also enables a very clear and realistic representation of the live situation in the plant. Errors or malfunctions can be detected and corrected immediately due to the direct link to the SAP system.

**Simulation in real-time and in 3D**

Based on physical calculations, the Visualizer simulates current and future processes, such as transport tasks.

This technology can be applied to resources that are already used in the company as well as to planned resources.

Software packages for transparent and efficient control

On the basis of the real-time data obtained in SAP®, resources such as forklifts, tugger trains or driverless systems can be optimized, making the internal material flow more efficient. With the help of Virtual Logistics, these data can additionally be used for forecast planning.

3D simulations, physical calculations and algorithms offer many possibilities to use the SAP data and take significant advantages of it. A 3D image of the customer area is created on the basis of a 2D map by using Flexus tools. It serves as an individual basis for all further calculations. Thanks to deep learning approaches, optimization potentials can be identified early and implemented for profit.

**3D Logistics Cockpit & 3D Simulation for Optimizing Internal Logistics Processes with Neural Networks and AI**

Advantages of Flexus AG

- Real-time analyses using live data from the SAP system
- Numerous evaluation tools for the optimization of internal processes
- Increased efficiency due to forecast planning
- Training & coaching with VR glasses
- Interactive process design in 3D
- 3D Cockpit for a comprehensive control system

Flexus Watchpoint the 3D Logistics Cockpit

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This provides a vital advantage: The use of different resources can be simulated even before acquisition and the respective saving potentials can be calculated.

Furthermore, the calculated data can be used to better estimate the effect of planned actions and to complete gaps in data.

Areas of application range from process training in order picking to the correct execution of the inventory count. Above all, the realistic environment and the visual feedback significantly accelerate the learning process.

**Areas of application of the Flexus solution:**

- Intuitive 3D Cockpit for controlling the process chain (pallet information, relocation, creating transport orders)
- Comprehensive analyses for optimizing inventory levels and increasing the efficiency of your own vehicle fleet
- Interactive training for employees
- Analyses for permanent minimization and prevention of empty runs and waiting times
- Fast troubleshooting incl. evaluation of the cause of the fault
- Simulations for future projects (new buildings/ conversions) in the company

**Training with VR glasses**

Training employees at regular intervals or instructing new personnel is very time-consuming in most cases and therefore cost-intensive.

With the help of Flexus 3D Training, these processes are made easier and more efficient. With Virtual Reality (VR), employees can be trained in real-time and in the 3D simulation of the real working environment faster than they would otherwise.
FLEXUS – Your SAP® Intralogistics Partner

Flexus AG is your competent consulting and development company for the process-oriented implementation of SAP® logistics solutions.

As certified SAP® partner, we have a long-standing expertise in the field of intralogistics. The Flexus solutions for SAP® intralogistics range from FLX-Yard Management, the FLX-Material Guidance System and the comprehensive portfolio for mobile apps with innovative technologies.

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