



Twiserion

Switch the digital genius on

by Asseco CEIT

T

your road map
to digital transformation

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www.ion



Twiserion

Switch the digital genius on

Under the brand name Twiserion, Asseco CEIT offers unique and comprehensive tools for **designing, monitoring, planning, managing and optimising** production, logistics, and warehousing systems.

Twiserion represents **the holistic ecosystem of a digital transformation** with the required effect of boosting resources optimisation, increasing quality, reducing costs, shortening production lead time, detecting anomalies, and making processes more effective.



DIGITAL MANAG



ER



RTLS

Twiserion Digital Manager is a [real-time digital twin software](#) solution that uses real-time location system (RTLS) technology to determine the position of all indoor monitored objects including logistics technology, material, production order, pallets as well as employees.

It thus gives industrial businesses a huge advantage as they can increase their efficiency and ability to react immediately to changes in the processes, thus improving their competitiveness.

Twiserion Digital Manager allows production and logistics processes to be optimised and

accelerated, manages them in real time and ensures heightened safety in the workplace. In businesses, the use of a digital twin is an essential part of the production process. Twiserion Digital Manager not only creates, but also optimises production systems.

DIGITAL ANLAGEN

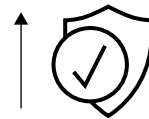
Increase in
productivity
via improved
production
management

↑ 10%

Reduction
in WIP thanks
to improved
product visibility

↓ 15%

Increase
in operator safety
by avoiding
collision situations
with logistics
technology





Digital twin as your real-world fix

Connected to the RTLS system, Twiserion Digital Manager transforms real-life companies into **more efficient, more modern, and more environmentally friendly**.

Real-time reliable data are used as a base for making smart decisions to increase productivity and safety, while also lowering operating costs.

Use cases for Twiserion Digital Manager



Production Flow Tracking

for real-time transparency

Monitor semi-finished goods across production stages in real time. Virtual zones mapped to your shop floor provide instant visibility into material location, detect bottlenecks before they impact delivery schedules and generate automated alerts when takt times are exceeded.



Smart Tools & Equipment Tracking

for continuous availability

Eliminate downtime caused by missing or misplaced tools. RTLS tags on critical equipment provide real-time location tracking, usage analytics and automated alerts when tools leave designated zones, ensuring production continuity and asset protection.



Intelligent Material Delivery

for just-in-time efficiency

Replace static delivery schedules with dynamic, demand-driven material supply. The system generates real-time delivery tasks based on actual production needs, optimises operator routes and ensures just-in-time material availability at every workstation.



Forklift & Equipment Efficiency

for cost-optimised operations

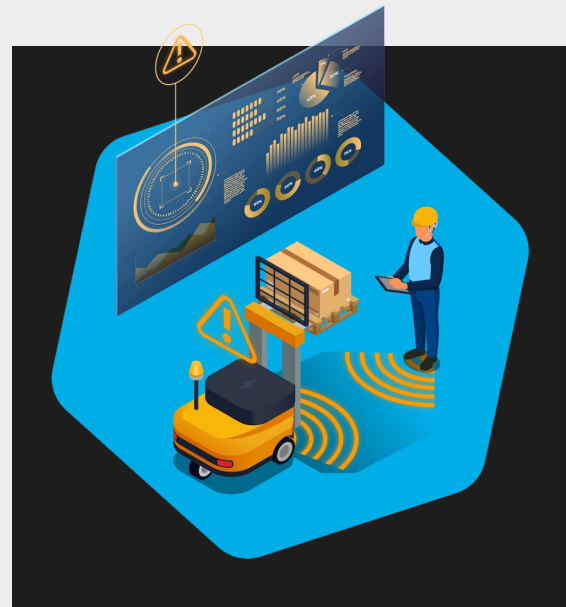
Comprehensive tracking of forklifts, AGVs and mobile equipment reveals utilisation patterns, idle times and inefficient routing. Historical analysis through spaghetti diagrams and heatmaps enables data-driven optimisation decisions that reduce operational costs.



Paperless Production Control

for total traceability

Automate work order management by triggering operator tasks when tagged materials enter production zones. Digital traceability replaces manual paperwork, ensuring complete audit trails while eliminating errors and reducing administrative overhead.



Real-Time Safety Alerts

for workplace protection

Advanced geofencing technology monitors operator and AGV movements, generating instant collision warnings through visual beacons and dashboard alerts. Real-time zone monitoring ensures safety compliance and reduces workplace incidents.



Production Performance Tracking

for continuous improvement

Live dashboard comparison of planned versus actual production output provides immediate visibility into performance deviations. Early delay detection enables rapid corrective actions and supports continuous improvement initiatives.





FLEET MANAGEMENT



ER



FLM

Twiserion Fleet Manager is Asseco CEIT's complex fleet manager developed for monitoring and management of the logistics devices.

Twiserion Fleet Manager provides comprehensive fleet management, as well as the fleet's real-time monitoring and display of the current status and the performed request.

Thanks to the collected statistical data, the customer can easily identify problem areas and focus on their optimisation.

FEET ANALYSER

Interactive
Map editor



Custom KPI
metrics



VDA 5050
Ready

VDA
5050



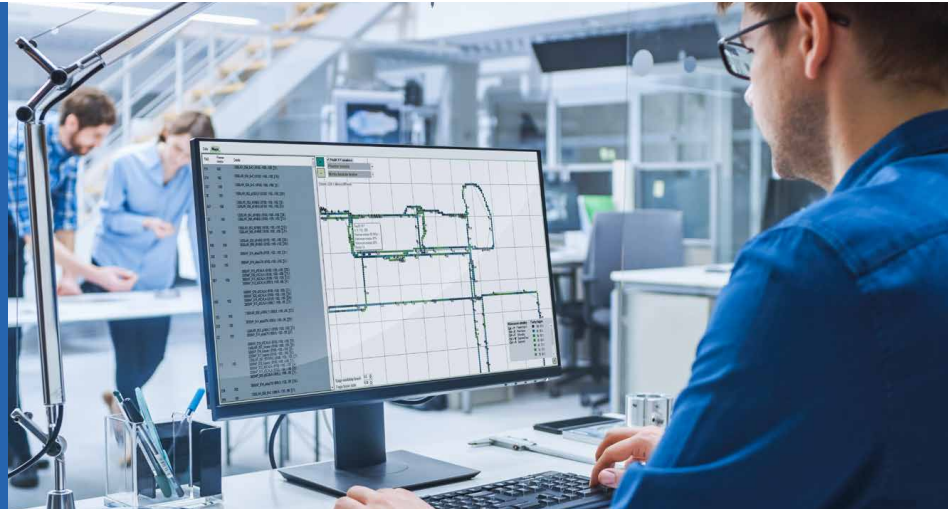
The brain of your AGV fleet

Twiserion Fleet Manager consists of three components, namely the **Control System**, **AGV Monitor (the monitoring system)**, and the **Track & Trace System**.

Twiserion Fleet Manager components

CONTROL SYSTEM

The Control System is the control unit that serves as the basis for the whole system that provides autonomous AGVs with the transmission of information about its **status, performed activities, problem situations, and positions within the defined area**, while using this information for decision-making and the subsequent management of individual parts of the logistics process of these resources.



With Control System, you are getting

Smart control.

The opportunity to evaluate the conditions of transport and make decisions based on them.

Automatically generated input information for transport from various external devices.

The ability to send information from the AGV to other external devices.

Synchronization with just-in-time and on-demand manufacturing.

Acceleration and continuity of material flow.

Full automation of production or logistics process.

AGV MONITOR

Asseco CEIT's AGV Monitor oversees autonomous AGVs and other system elements active in the manufacturing process. The role of the AGV Monitor is to offer employees on the shop floors the opportunity to monitor the position, activity, operating status of individual mobile robots and other system elements, and to have an overall overview and control over them in real time.



AGV Monitor allows for

Monitoring of the position, operation, and operating status of autonomous AGV equipment and other system elements.

Monitoring of the status of requests sent from an external system.

Real-time graphical visualization of collected data in a user-friendly form.

The ability to monitor the presence/absence of the AGV at a specific location in real time.

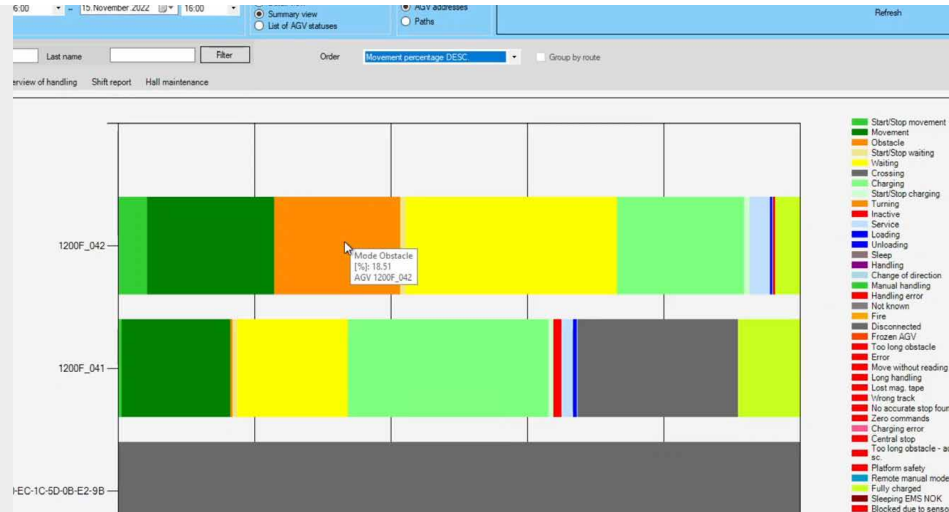
The opportunity to inform about defective material carried by the AGV or the static conveyor.

Error notification and abnormal situations are immediately displayed on the warning panel.

Possibility to display the occupancy of intersections.

TRACK & TRACE STATISTICAL SOFTWARE

Track & Trace provides an insight into the history of production and logistics processes implemented in the industrial halls of various industries. The software records, statistically evaluates and displays the operational activities of individual autonomous mobile robots, provides a regular report on their overall movement, material transshipment, communication response, correct reading of RFID tags, and more.



Track & Trace offers

Collection, storage and evaluation of historical data and their graphical visualization for production and logistics managers.

Recording of historical data from the production process to identify bottlenecks in the logistics process.

Activity statistics and utilization monitoring the autonomous AGV equipment.

Statistics on the operating conditions and occupancy status of the AGVs' peripherals.

Graphical display of historical data related, for example, to specific AGV status information, distance travelled, errors, network response, number of parts produced, the functionality of the server and its components in user-defined time intervals.

Twiserion references

“Digital Twin concept by Asseco CEIT has opened a whole range of use cases that we are continuously delivering, with each step reaching a higher digital maturity level, boosted efficiency and what’s most important, getting the competitive advantage. It bridges real-time situations with the digital twin environment where we can take immediate corrective action and acquire a robust database of data for analysis. We cannot change what happened today, but can analyze, learn and influence what happens tomorrow with the help of Asseco CEIT competencies.”



Rastislav Ruckay, Production Improvement Manager
VELUX COMMERCIAL



“Thanks to the deployed superstructure control system from the workshop of the technology company Asseco CEIT, we achieved a 20% difference in the OEE fleet of forklift trucks in the warehouse premises of the press shop, as well as a high increase in the utilization of the mentioned warehouses. We also appreciate the reliability of the supplier and its solutions because the visualization of the fleet in real time has brought us increased safety in the workplace.”

Martin Adamicka, Plant Logistics Manager
VOLKSWAGEN SLOVAKIA

“The new logistics centre should not only bring Slovenská pošta, the national postal service operator, into the 21st century, but it should also become the backbone of its Slovakia-wide activities and the centre of logistics operations. No other project of similar size and specifications has been carried out in Slovakia to date, so Slovenská pošta believes it is vitally important to work from the very beginning with highly professional and knowledgeable partners; when preparing our concept – or case study – we found this partner in Asseco CEIT. We appreciate their professionalism, proper and effective cooperation throughout the project, which led to the set goal.”



Martin Luptak, General Director and President of the Board
SLOVENSKÁ POŠTA, A. S.

Asseco CEIT

is an innovative technology company and a **one-stop shop** providing complete digital transformation solutions necessary for converting industrial businesses into smart ones.

We have been applying our mission to **increase productivity, effectiveness, and competitiveness in all sizes of industrial companies across global markets.**

Our goal is to provide a full-circle digital solutions for continuous improvement in manufacturing, logistics, and warehousing companies using the latest technology tools.



ISO 9001

BUREAU VERITAS
Certification



ISO 14001

BUREAU VERITAS
Certification





**Future
accelerated**

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