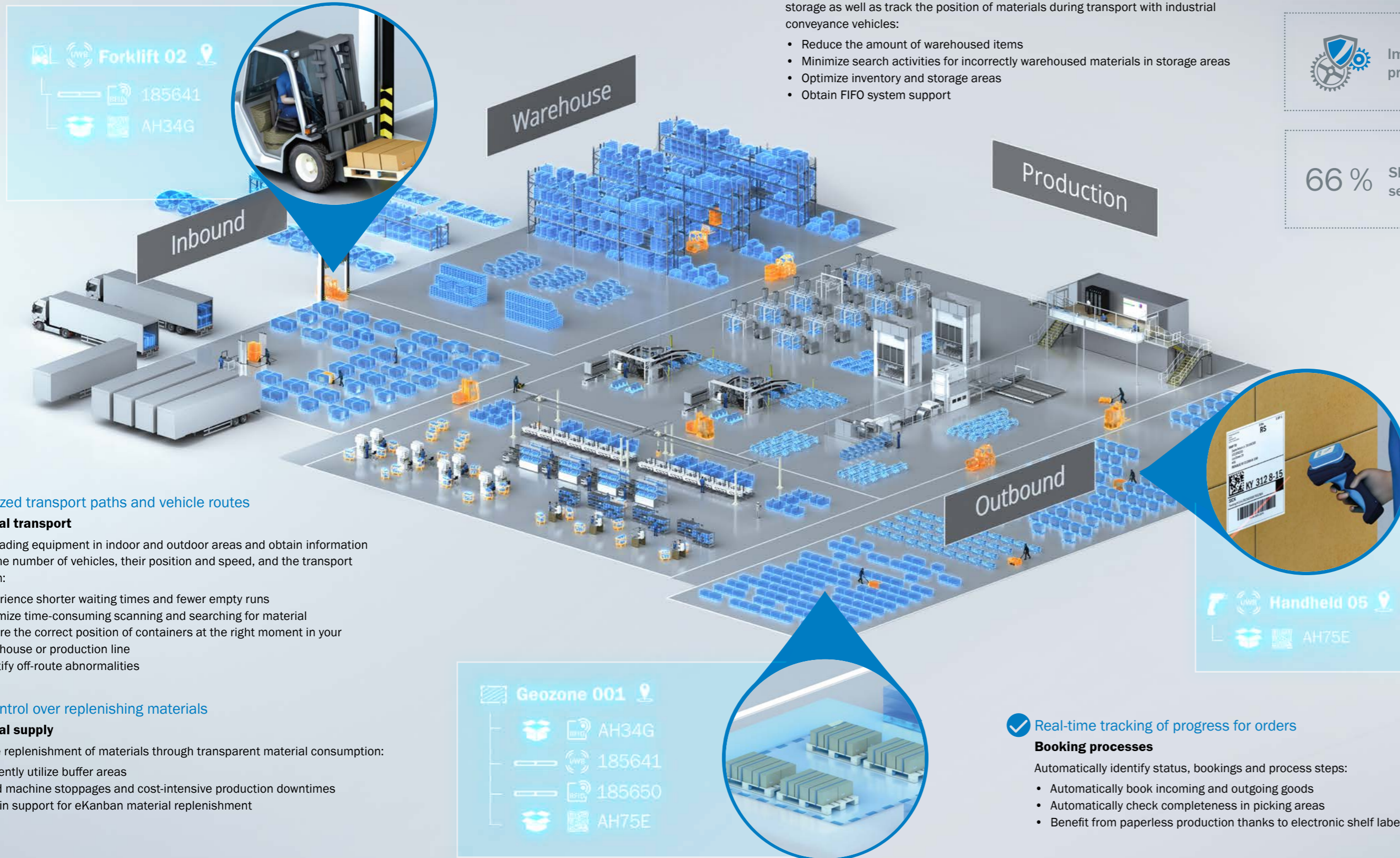


REAL-TIME LOCATING IN USE

Intelligent material flow management in nonautomated and partially automated areas



✓ Efficient warehouse organization and networking

Warehouse management

Precisely determine the storage period, warehouse content, and quantity in storage as well as track the position of materials during transport with industrial conveyance vehicles:

- Reduce the amount of warehoused items
- Minimize search activities for incorrectly warehoused materials in storage areas
- Optimize inventory and storage areas
- Obtain FIFO system support

10 – 20% Greater overall equipment effectiveness (OEE)

Improved process reliability

66% Shorter search times

✓ Optimized transport paths and vehicle routes

Material transport

Track loading equipment in indoor and outdoor areas and obtain information about the number of vehicles, their position and speed, and the transport duration:

- Experience shorter waiting times and fewer empty runs
- Minimize time-consuming scanning and searching for material
- Ensure the correct position of containers at the right moment in your warehouse or production line
- Identify off-route abnormalities

✓ Full control over replenishing materials

Material supply

Manage replenishment of materials through transparent material consumption:

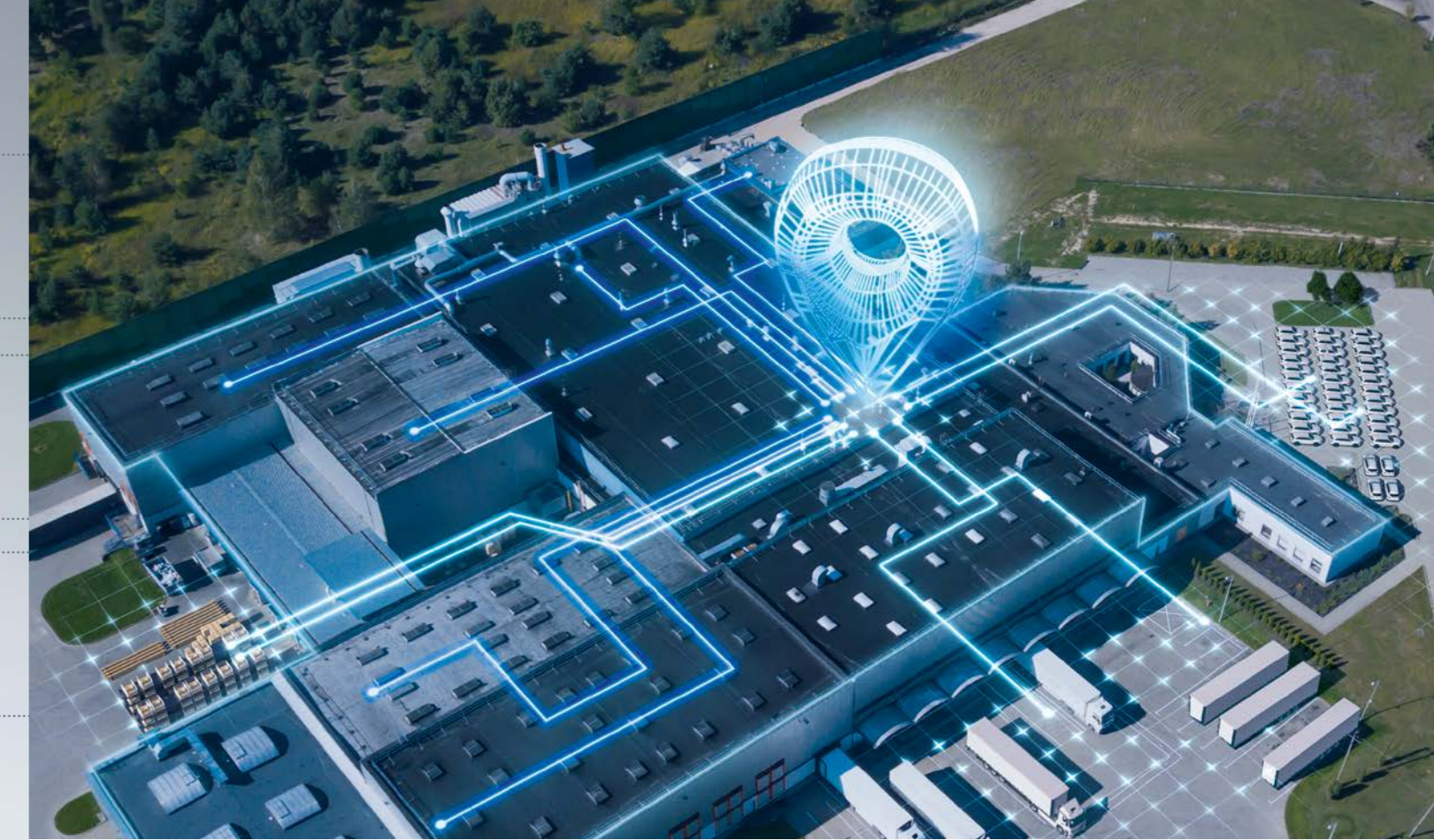
- Efficiently utilize buffer areas
- Avoid machine stoppages and cost-intensive production downtimes
- Obtain support for eKanban material replenishment

✓ Real-time tracking of progress for orders

Booking processes

Automatically identify status, bookings and process steps:

- Automatically book incoming and outgoing goods
- Automatically check completeness in picking areas
- Benefit from paperless production thanks to electronic shelf labels



SEAMLESS FLOW OF MATERIALS BETWEEN WAREHOUSE, PRODUCTION AND DISTRIBUTION

TRANSPARENCY BEYOND BOUNDARIES

Industrial locating solutions

SICK
Sensor Intelligence.

In intralogistics, manufacturing and intersecting areas, processes interconnect and create interdependencies. This heavily impacts a company's productivity and efficiency: Scanning and searching for materials takes time, routing and sequences of movement lack efficiency, leading to material shortages as well as production delays and stoppages.

SICK locating solutions give you the tools you need to monitor the position and movement of materials, loading equipment, and industrial conveyance vehicles and deliver valuable information so you can evaluate and manage the flow of your material.

Shorter search times

Improved process reliability

Greater overall equipment effectiveness (OEE)

YOUR PARTNER FOR HOLISTIC SOLUTIONS

Benefit from SICK's sophisticated portfolio of software, localization, and identification solutions and reliable service expertise to digitally transform your shop-floor processes.

- ✓ Consulting
- ✓ Project management
- ✓ Product and system support
- ✓ Optimization



Real-time localization systems (RTLS) over ultra-wideband (UWB)
Tracking and tracing assets uses real-time location-based data to achieve accuracy to the centimeter.

www.sick.com/Tag-LOC_System



Outdoor tracking
Position of vehicles and other assets in outdoor areas is precisely determined on the basis of secure mobile communications technology and GPS modules.

www.sick.com/Telematic_Data_Collector



Identification solutions
Objects identified using codes, RFID or OCR/OCV for verifying, tracking, and counting objects.



Location-based solution — seamlessly link OT and IT

Location intelligence platform
Our multi-technology software helps you manage the level of automation you want for a wide range of applications:

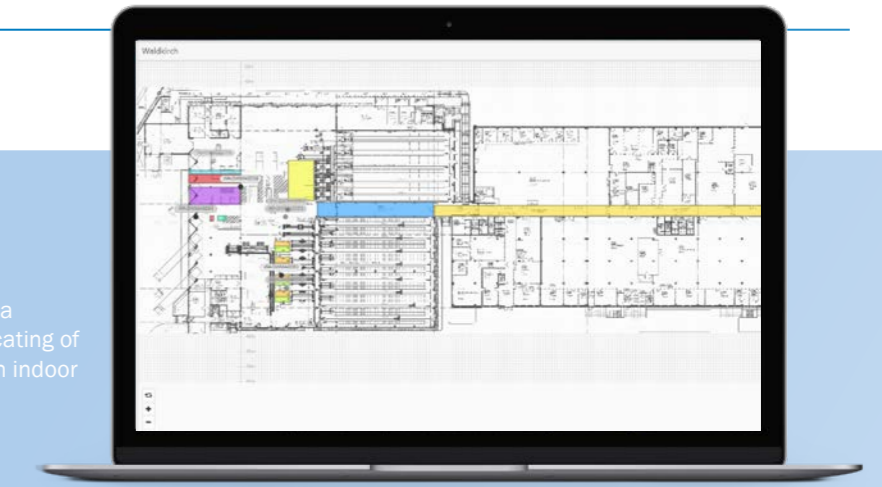
www.sick.com/Asset_Analytics



- No-code/
low-code approach
- Live map and
asset monitoring
- Standardized
industry interfaces



01 Live tracking
Collect position and condition data through the direct and indirect locating of material and loading equipment in indoor and outdoor areas.



02 Digital twin
Use the visual display of recorded data to monitor assets in real time regardless of the technology or manufacturer and derive information about optimization potential for logistics processes.



03 Customized automation
Deploy geofencing and manage user-defined events on the basis of centralized data to flexibly automate processes.



04 Process mining
Fully record and monitor ACTUAL and TARGET processes throughout the entire supply chain by drawing on log files and movement data from a wide range of operational information systems.

Real-time optimization thanks to data-based process automation

Hohe Transparenz bei allen produktiven Assets, Ladungsträgern und Ladehilfsmitteln ermöglicht eine agile Planung von Fertigungs- sowie logistischen Prozessen und somit ein Shopfloor-Management.