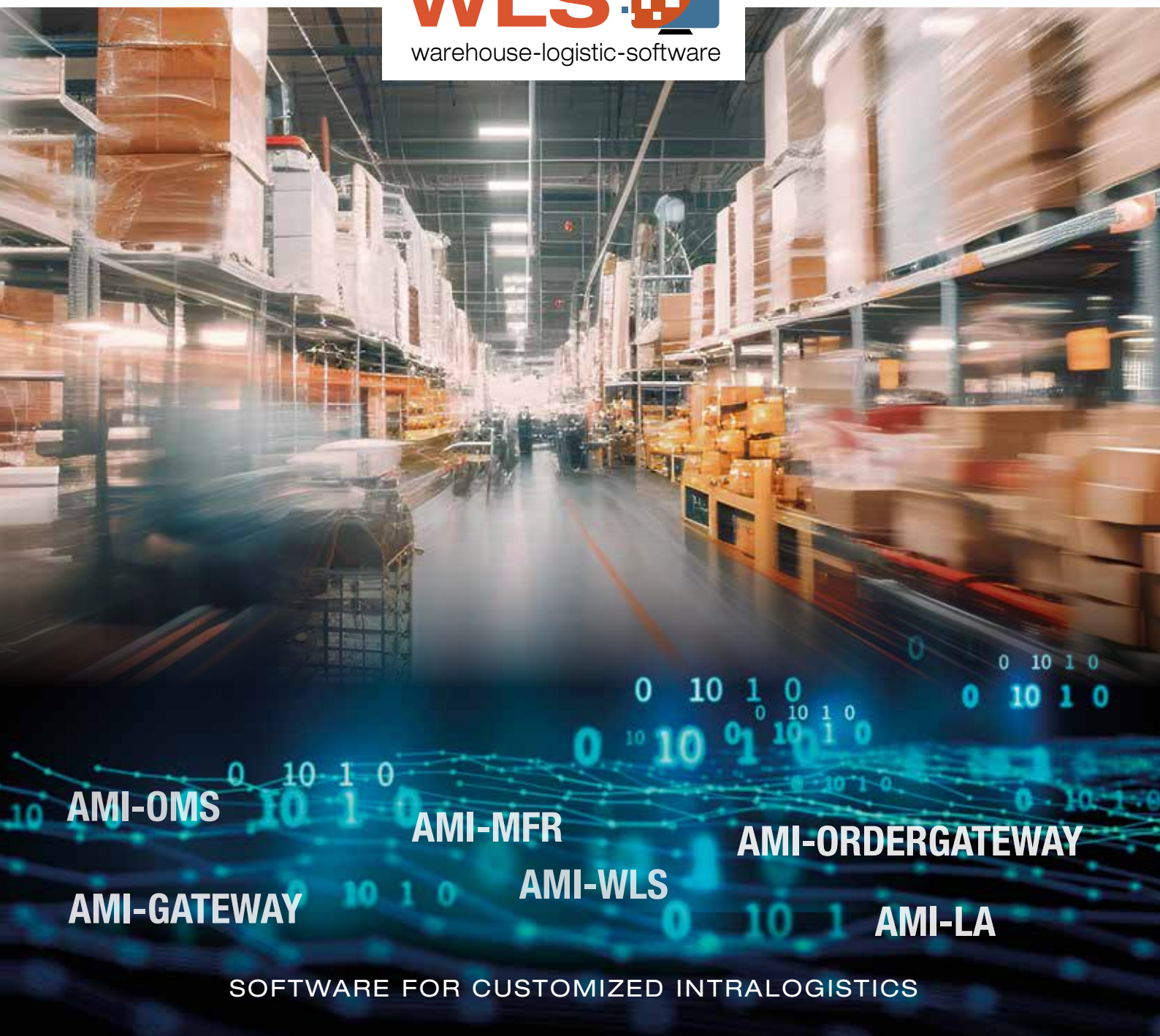
AUTOMATION MANUFACTURING INTRALOGISTICS

WLS
warehouse-logistic-software



SOFTWARE FOR CUSTOMIZED INTRALOGISTICS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AMI develops the newest technology for intralogistics. The interplay of deep industry knowledge and technological know-how paves the way for successful automation concepts and solutions.

HERE WE **DEVELOP** AND **PRODUCE** FOR YOU!

AMI Conveyor and Storage Technology GmbH was founded in 1987 in Alpenrod and established its headquarters in Luckenbach in Westerwald in 2012. We employ approximately 200 staff members and have significantly expanded our development and manufacturing capacities over the past few years. We have also established a state-of-the-art machine park in our 16.000 square metre factory halls, where we produce components and modules with a production depth of over 87% for automated intralogistics systems and plants. Our portfolio also includes robot-assisted units for manufacturing and assembly and fully automated production lines for a wide range of industrial applications.

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The AM **WLS** software platform is impressive for its simple, intuitive operation with a well thought-out menu structure. The modular structure offers a high degree of flexibility. The field of application ranges from simple visualisation tasks to middleware solutions that can connect systems of various types.
AMI WLS can be individually adapted to your needs. From the design of the user interface to interfaces to **ERP** systems or **MES**, **WLS** enables innovative solutions.
Benefit from easy maintenance through regular software updates. This keeps the solution up to date at all times. Mobile solutions based on Android or iOS complete the portfolio.

INTERESTING FACTS

Just as important as the physical transport of containers of all kinds is the tracking and target specification for these containers. Our **WLS** (Warehouse Logistics System) software platform offers a comprehensive set of modules for this purpose, which maps all your software processes between incoming and outgoing goods.

HIGHLIGHTS INCLUDE:

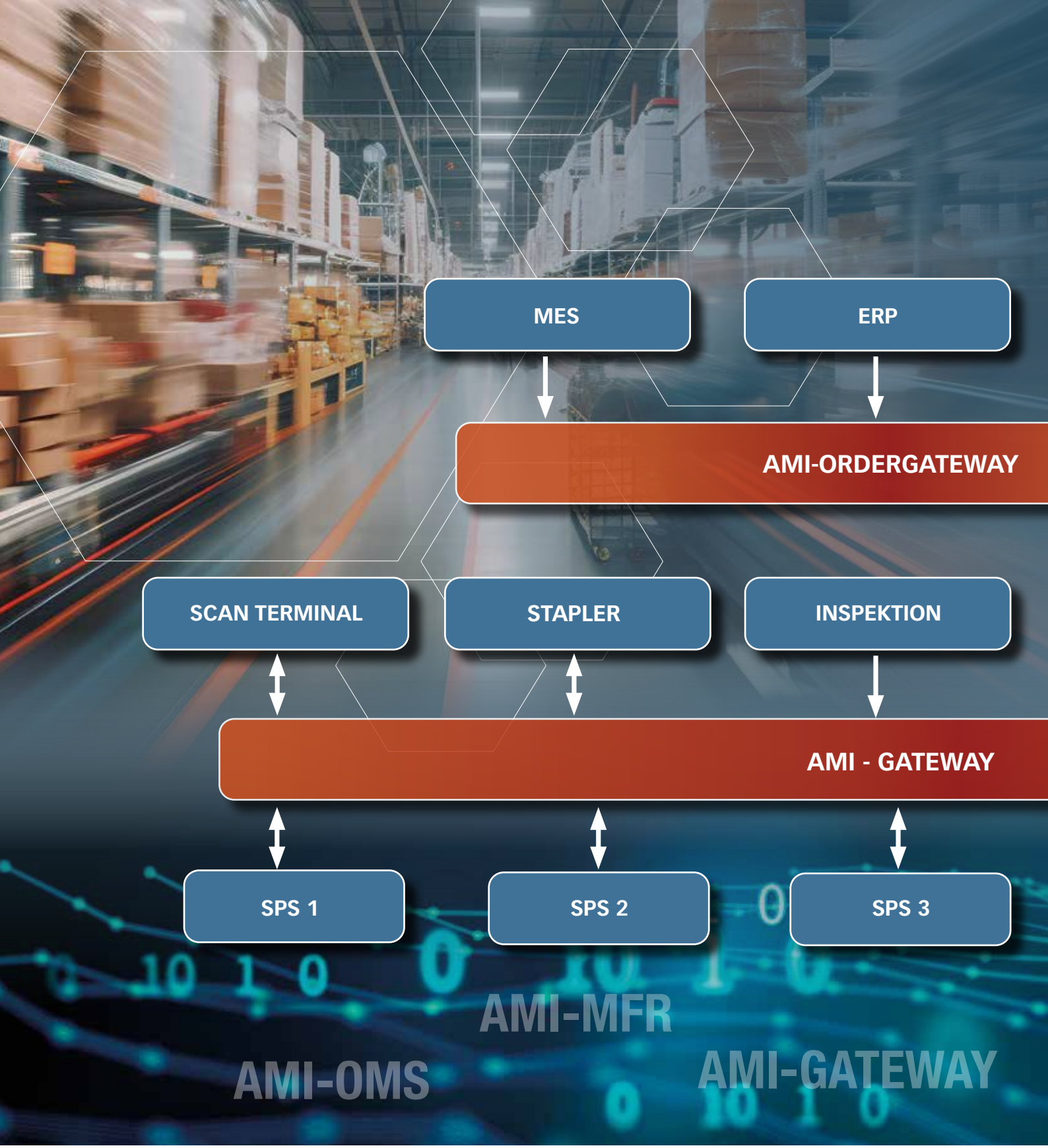
- Order management
- Material flow (transport orders/tracking/tracing)
- Warehouse management
- Gate management
- Incoming/outgoing inspections
- Maintenance management
- Order picking

The interaction is ensured via freely configurable processes (workflows).

Of course, **WLS** also offers

- Comprehensive statistics
- Process diagnostics
- Backup/Restore
- Inspection technology

to meet all the essential requirements of intralogistics. The system offers a sustainable increase in system efficiency and thus noticeable savings and efficient control, combined with long-term maintainability. Extensive log entries guarantee a detailed diagnosis of the internal system processes.


MES
ERP
AMI-ORDERGATEWAY
SCAN TERMINAL
STAPLER
INSPEKTION
AMI - GATEWAY
SPS 1
SPS 2
SPS 3
AMI-MFR
AMI-OMS
AMI-GATEWAY

DATA AND INFORMATION FLOW IN AUTOMATED INTRALOGISTICS

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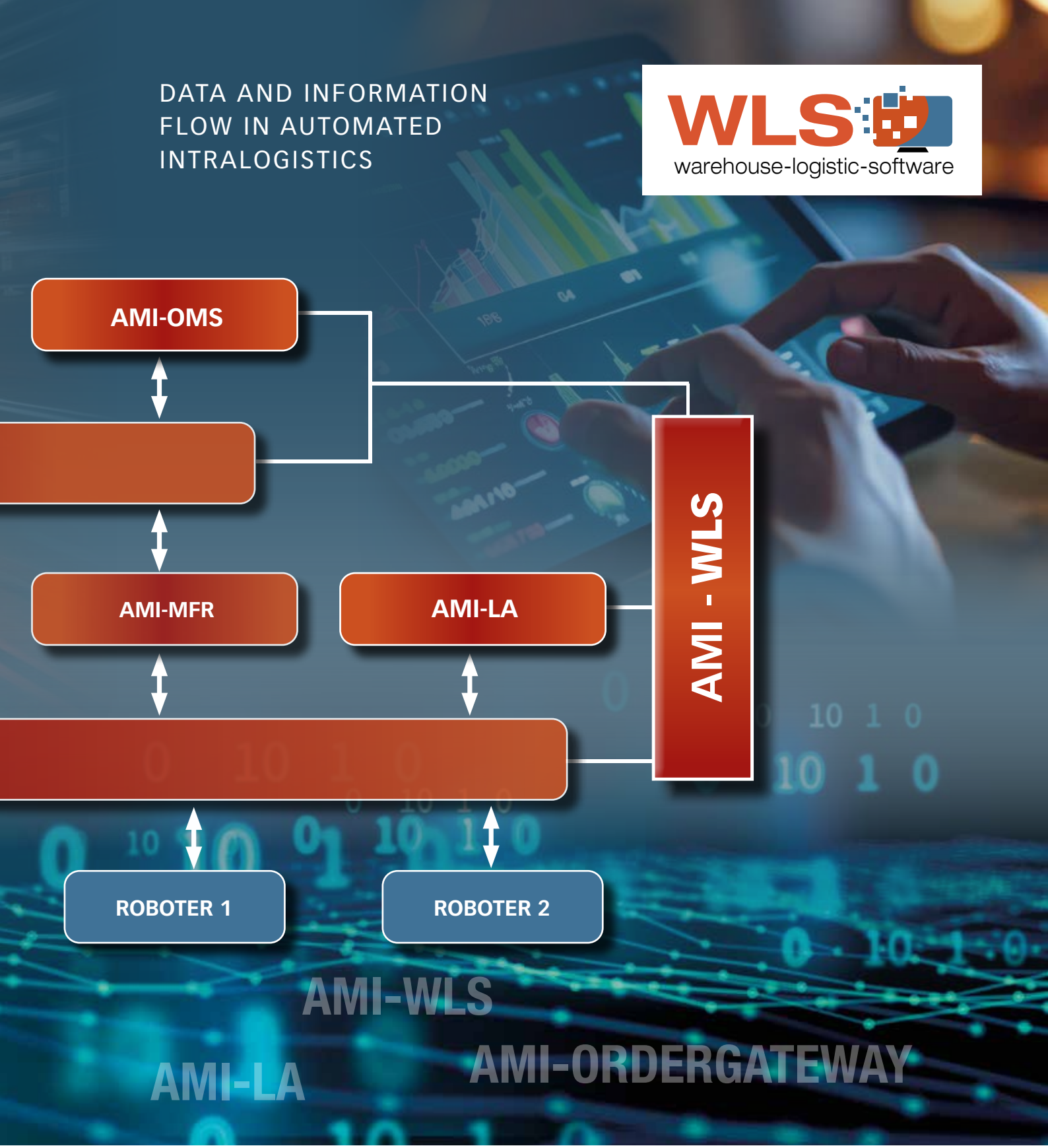


CONNECT

AMI-GATEWAY

AMI-Gateway is an IT system (software and hardware) that provides the connection and communication between two systems that do not know each other directly (such as a controller and a higher-level system). It acts as a bridge or translator of communication protocols, significantly reducing the planning and implementation effort involved in connecting lower-level systems (robots/PLC).

- Connection between two systems that do not know each other directly
- Network isolation
- Bridge / translator of communication protocols
  - Fewer adjustments at the tax level
  - Reusability of protocols
  - Easier diagnosis of communication channels
  - History of protocols
- Connection of an AMI backend
  - Data collection
  - Cloud based

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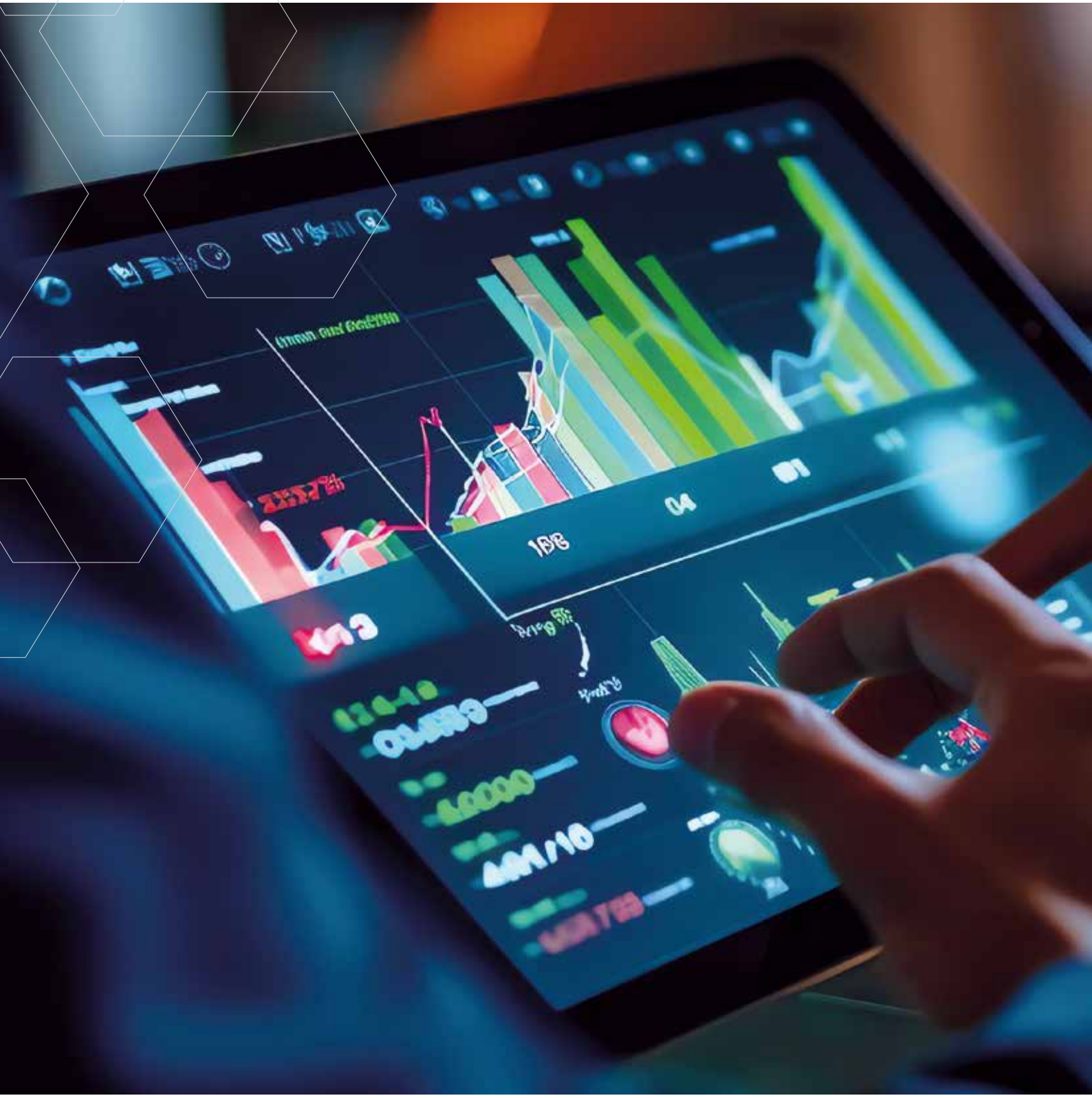
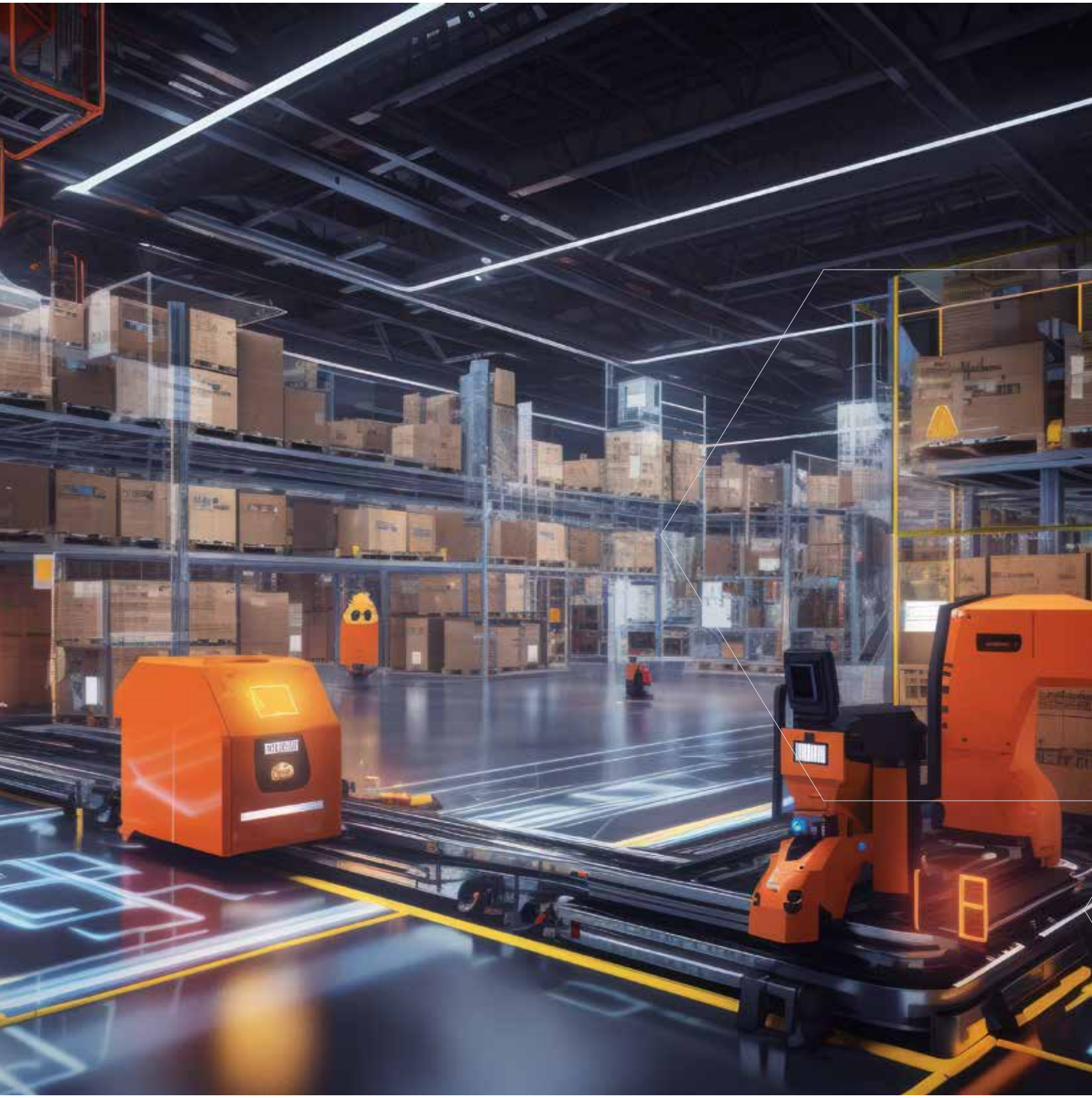
AMI-LINEANALYSER

The **AMI-Lineanalyser** is a software product for the diagnosis of automation systems. Based on the PackML status model and calculated OEE data, a complete analysis of weak points and bottlenecks is possible and allows targeted improvement measures to be derived. lineanalyser offers the option of connecting external systems in addition to your own automation units to optimize production processes. These include conveyors, palletizers, storage and retrieval machines, lifts and robots.

- Bottlenecks are uncovered
- optimization of production processes
- Recording downtimes
- Report / Reporting
- Real-time overview of system status information
- Performance analysis of third-party machines
- History of performance data
- Service-oriented architecture
  - Independent of operating systems
- Connection to AMI backend
  - System analysis by AMI Service
- Operation via apps
  - Mobil
  - Desktop





AMI-MFR

The **AMI material flow computer** is a software product that controls transportation tasks within logistics systems. It therefore acts as a control system and link between the connected participants. Possible participants include conveyor systems, storage and retrieval machines and robots. The material flow computer receives orders from planning systems such as ERP or warehouse management, and these orders are converted into transport orders for the individual subordinate participants and executed. An AMI order management system is connected for order acceptance and administration.

- Control of data streams and transports
- Connection to ERP/MES systems via order management
- Tracking/tracing of conveyor units
- Responsible for all transports in one system
  - Route optimization
- Generates transport orders for
  - Conveyor lines
  - Roboter
  - Storage and retrieval machines
  - AGV
  - Etc.

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AMI-ORDERMANAGEMENT

AMI order management is used by control systems, such as **AMI-MFR**, to make order data from customer systems (ERP/MES) available in a standardized way throughout the system. it acts as a data memory for orders and also manages batch orders. order feedback is also mapped via order management.

- Orders are available system-wide in a standardized format
- Completion of orders by request to several systems
- Push“ of orders possible
- Confirmation of orders
- Connection to the system via separate gateway

AMI-LOGISTIK APP

The app functions as a visualization of the **Lineanalyzer** and **MFR** modules, which provide data in a **web API**. analysis and diagnostic data are prepared graphically and displayed to the user. the app can be run on mobile devices as well as on desktop systems.

- Visualization of Lineanalyzer and MFR
- Mobile devices and desktop possible
  - IOS
  - MacOS
  - Android
  - Windows
- Future-proof

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