KINEXON

Masterclass:

From Pilot to 100+ Robots:
Orchestrating a 4-Vendor Fleet
Across 3 Plants on One Platform

How a Premium Automotive OEM Redefined Operational Excellence with a Multi-Vendor Strategy

Presented By: Dr. Alexandar Hüttenbrink – Co-Founder and Co-CEO of KINEXON Industries



A Leading Global Automotive OEM Undergoing Rapid Expansion Was Facing Various Challenges in Automating Their Intralogistics

The Customer and the Phased Project

10+ global plants with diverse local logistics systems

100+ AGVs and AMRs from 4 different vendors spread out over multiple plants

Complex logistics systems across global sites with varied technology and infrastructure

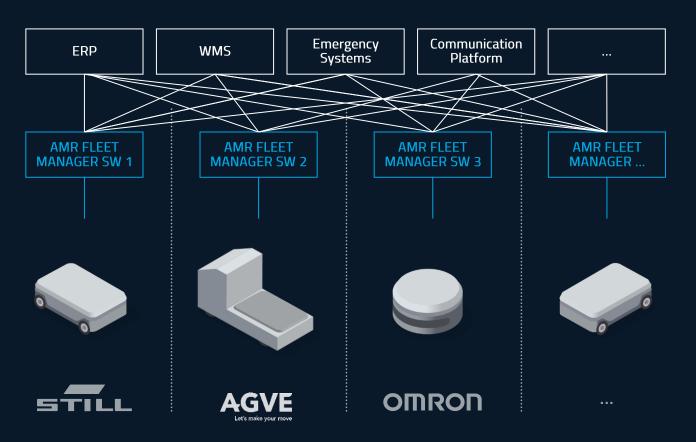
Focus on the movement of materials from creation to use, often via buffer zones.

Streamline the transportation of materials between different production lines



autonomous vehicles

Challenges for Scaling: Vertical Silos, High Costs and a Lack of Scalability



Slow adoption & poor scalability within and across sites

Steep learning curve for different robot platforms
Reduced scalability across multiple sites

Highly inefficient and inflexible robot fleet operations due to vertical silos & legacy systems

Lock-in effect with robot OEM

High costs for software maintenance

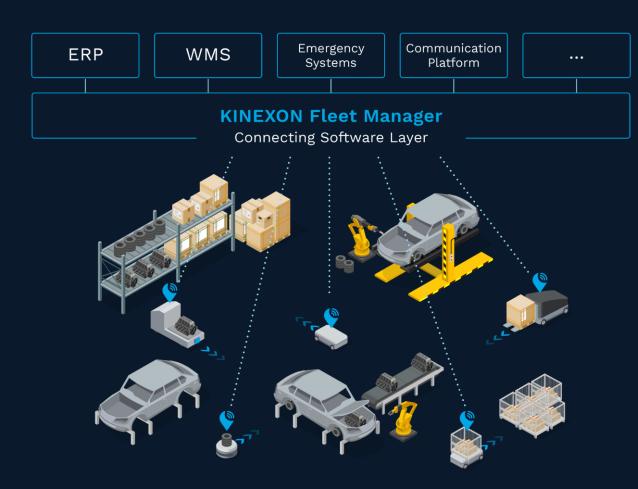
High effort in integration of various assets

Reduced usability leads to efficiency drops

Complex and lengthy IT-integration process

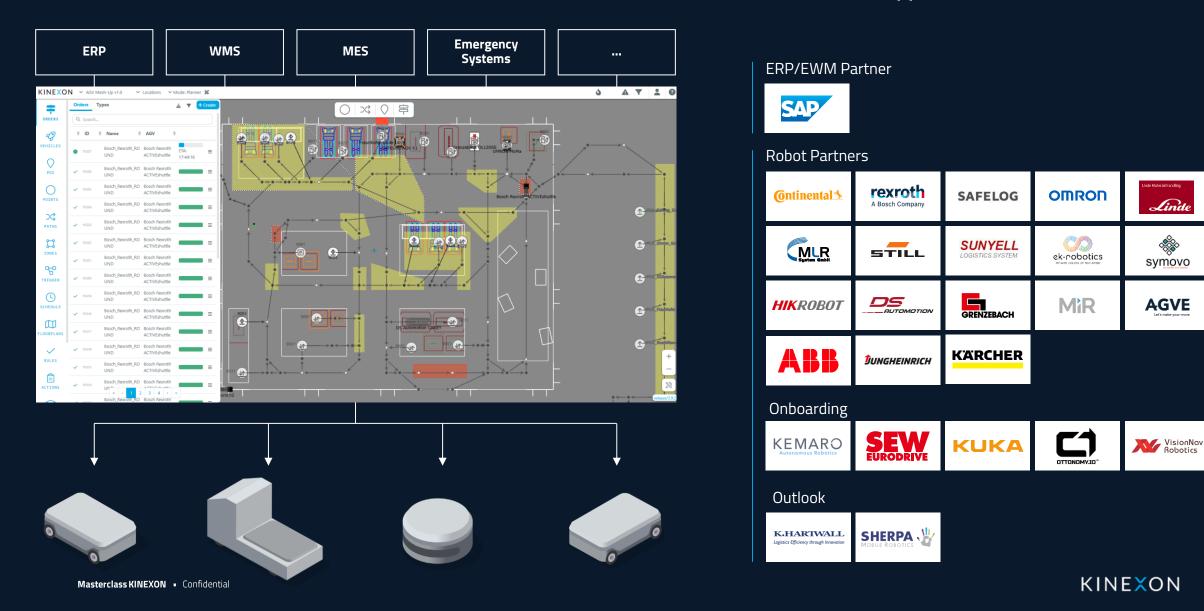
High complexity for ERP/WMS/MES integrations
High Maintenance
Not all Integrations work seamlessly

Solution Design: Kinexon Fleet Manager Is the Perfect Solution to Accomplish All That



- VDA5050 support new compliant robots can be configured and run in days.
- 20+ AMRs/AGVs VDA5050 & KINEXON certified brands supported out of the box.
- < 2 months for retrofitting other brands.
- Centralizes all relevant orchestration features in one platform, such as smart routing, traffic management, real-time monitoring.
- Integrates plant infrastructure (traffic lights, forklift detection) via MQTT
- Connects seamlessly with ERP, MES, and WMS systems, comes with certified SAP integrations
- Scalable across sites with cloud or on-premise deployment and global remote support.

Ready to Scale: Fleet Manager Is Optimally Set up to Support Further Rollouts in Other Plants with Various Robot Vendors & Types



Project Success Factors

Solving Several Complex Challenges in the Planning and Implementation Phase

Achieving Cross-Site Understanding



Mastering Retro-Fitting



Doing Global Goal Prioritization



Flexible
System Integration



Creating a Consensus on Functionality

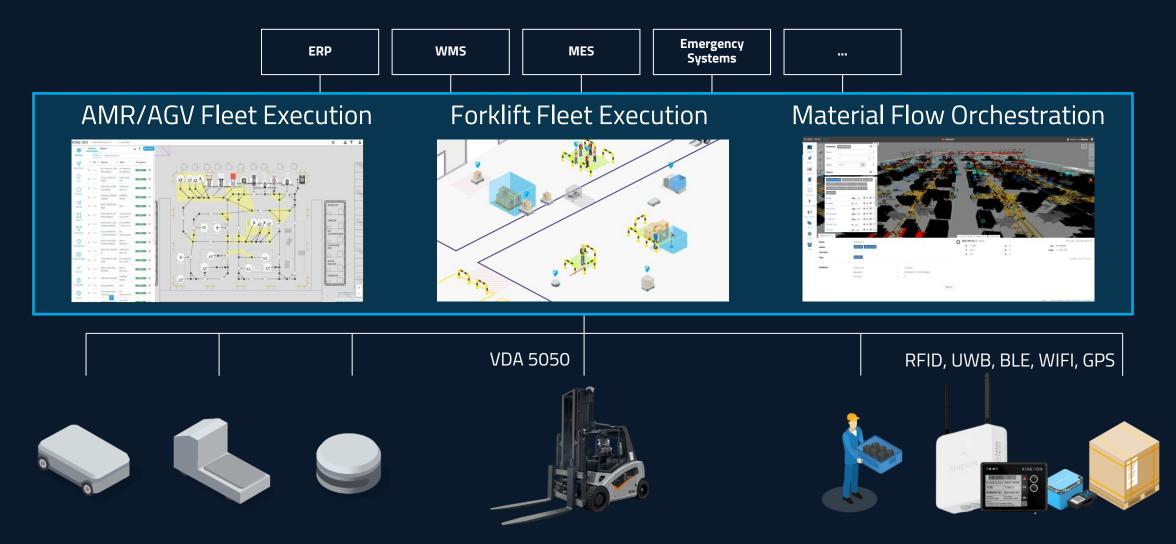


Operational Alignment & Responsible Orchestrator





Outlook for Next Level of Automation: End-to-End Intralogistics Execution Orchestrating AMRs with Manual Vehicles and Asset Tracking



Now, Next, and the Big Picture



- ✓ Fleet manager live across multiple plants
- ✓ Running an AMR-only model line



- 1. Integration into production flows
- 2. Al-based operational optimization
- 3. Continued global rollout



Scalable automation needs:

- Global standards
- Vendor-agnostic tech
- Remote support (24/7)



Results

- ✓ Harmonized data and control boosted operational efficiency across plants.
- ✓ Safety incidents dropped, automated logistics tasks reduced costs and increased throughput.
- √ 3 plants, 4 vendors, 100+ vehicles in 1.5 years!

See You at Our Booth Next to the Integration Zone!



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