



arendai **PROVIDES** AN EVOLUTIONARY **TRANSFORMATION TO INDUSTRY 4.0**

Orendai

Easy integration with enterprise systems like ERP and WMS/WES

Edge computing to enable realtime, low latency orchestration of robotics fleet

AI to rapidly optimize intralogistics operations

Established in 2018, HQ in CA, US with teams across Europe and NA.

It combines existing warehouse management systems and production with a fleet manager supported by AI that optimally managing robot fleets and intralogistics processes.

> Future-Ready Solutions

- Flexibility to scale up or down as needed
- 24/7 operational capability with minimal investment
- Enhancing customer service and satisfaction
- Boosting productivity without overburdening teams

























Partnering with intel

Technological & business partner



Cooperation with leading robotics companies offices in the USA and Europe.

Arendai taps into cutting-edge technology.

Optimal performance and security for Arendai solutions making them more reliable.



Retail Industry's Challenge: Meeting Elevated Customer Expectations



Transition from conventional warehousing to a dynamic solution

Coping with high demand and customer volume

The path to replicability, productivity, and scalability

Revolutionising logistics and warehouse operations



Harmony is the foundation for accelerating seamless integration and automation using:





TwinsSync

Arendai's digital twin to manage autonomous logistics center or smart factory.





Edge computing

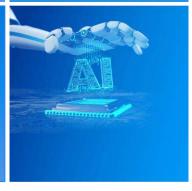
to enable real-time, low latency orchestration of robotics fleet.





ΑI

to rapidly optimize intralogistics operations.





Pre-integration

with partner AMRs and other robotics applications systems for rapid deployment of production-ready solutions.





Easy integration

with enterprise systems like ERP and WMS/WES.

Leveraging Intel hardware in Compute, CV, and Al spanning from embedded solutions to the Edge and Cloud.







Our USP is ability to introduce expanded AI capabilities through edge computing infrastructure.

This includes vision and visual Simultaneous Localization and Mapping (vSLAM), ensuring a safe environment for robot- human collaboration within warehouse operations.

The Power of Digital Twins



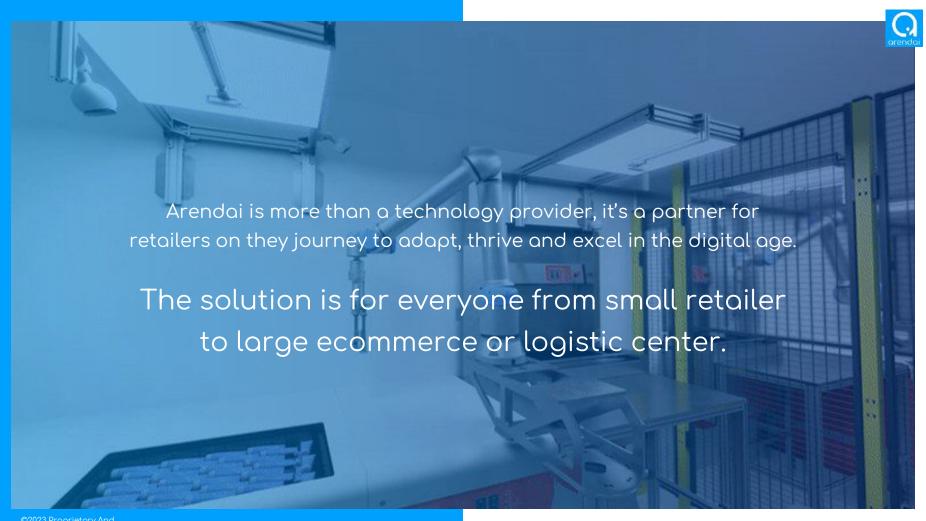
TwinsSync™ plays a pivotal role in simulation, planning and management.



Facilitating optimization and predictive maintenance.

It helps retailers to create a dynamic environment that mirrors physical operations

Allows to respond to changing customer behaviour and market dynamics.



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Arendai Harmony Sample Use Case - small





Process Optimization:

Implement robotic systems for efficient handling of fluctuating order volumes and fast delivery requirements. Simulate different workflow configurations to maximize productivity.

Task Scheduling:

Test various task allocation strategies, such as goods-toperson and combined picking + sorting, to streamline operations and reduce errors in small retail settings.

Inventory Management:

Utilize robots for accurate inventory tracking, including large SKU management, and optimize storage space efficiently with high-density storage solutions.

Supply Chain:

Explore the benefits of using robots in the supply chain, particularly for tracking shipments and optimizing restocking processes.



Arendai Harmony Sample Use Case - large

Workflow Standardization:

Standardize robotic workflows and configurations across multiple retail locations to ensure consistency in operations, especially in the face of fluctuating order volumes.

Task Coordination:

Coordinate tasks between robots and human workers effectively across numerous retail outlets to maintain seamless operations.

Inventory Management:

Monitor inventory levels in real time across the entire retail chain, optimizing restocking processes and large SKU management.

Supply Chain Optimization:

Streamline the usage of robots in the supply chain, from manufacturers to distribution centers, for large-scale retail operations.









harmony

Arendai's Harmony solution is a critical component for logistics centers of the future and Industry 4.0. Harmony provides holistic optimization through a fully integrated solution, enabling scalable growth and true ROI.

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