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VERONA, ITALY



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European Research Seminar
(ERS) ON LOGISTICS & SCM



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Case Study

Vector S.p.a.

Vector optimizes traceability in the transit warehouse with WES and RTLS technology



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Panelist and Agenda



Luca Rebellato

IT & Innovation Manager at VECTOR SPA

- Objectives and Challenges
- AS-IS Process
- Implemented Technologies
- TO-BE Process
- Results



Michele D'Auria

Project Manager Consulting & Solution at KFI SRL

- About KFI
- Question Time





Based in Castellanza (VA), Vector Spa is a leader in international shipping, specializing in air, sea, land, and rail transport.

With a global network covering strategic markets such as China, India, South Korea, Brazil, and the United States,

Vector delivers tailored logistics solutions for industries like pharmaceuticals, defense, and hazardous materials. The company stands out for its commitment to innovation and sustainability, recognized by the EcoVadis Gold Medal.



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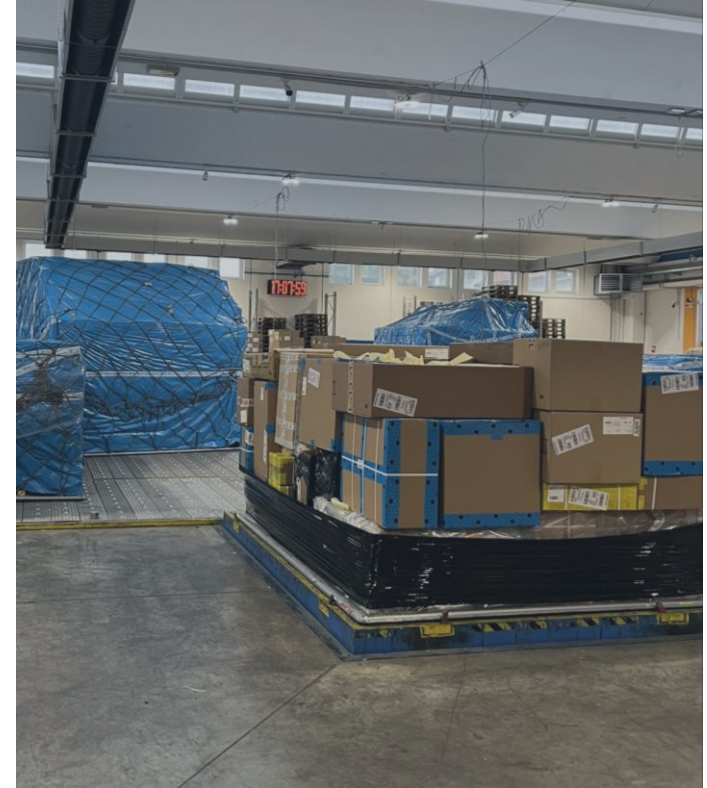
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Objectives

Vector has chosen KFI's consulting services and enabling technologies to improve the productivity and quality of **cross-docking** operations and to achieve **precise, real-time traceability** of assets in transit within the warehouse.

Challenges

- Reduce time spent locating and positioning goods
- Improve the accuracy of package placement
- Enhance the physical and mental well-being of operators



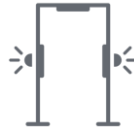
AS-IS process

Goods placement in the transit warehouse managed by memory, leading to long package search times



Goods receiving

Initial check of inbound packages in the transit warehouse



Inspection & weighing process

Automated verification through dynamic machine for fast and accurate data



Free storage

Pallets manually placed based on destination area, without precise tracking



Memory-based search

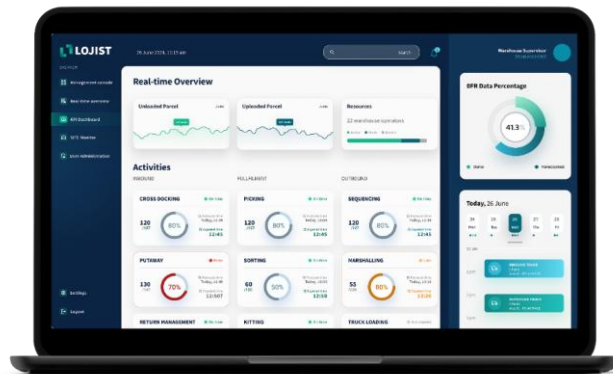
Package location relies on operators' memory, leading to a high risk of errors and long retrieval times



Final shipment

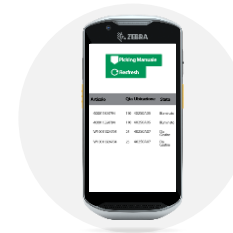
Loading of outgoing goods takes place after an unstructured search

Technologies deployed



LOJIST

The KFI platform acts as an interface between the WMS and the RTLS tags associated with Android PDAs, centralizing data and managing cross-docking operations.



Zebra TC52

PDA Android rugged



Quuppa BlueUp

RTLS Tag



Quuppa LD-6L

RTLS anchor

LOJIST

Redefine the logic of your processes

LOJIST is KFI's modular and multi-technology platform designed for managing and optimizing logistics processes.

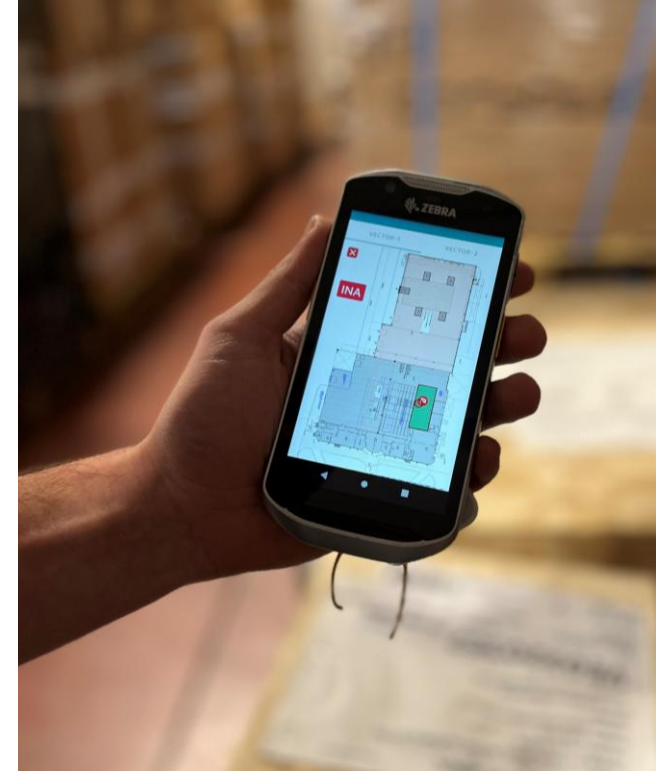
LOJIST processes data from your information systems (ERP, WMS, MES, WCS), integrating it with data collected from field technologies to create new, optimized process logics.

Harmonize your human and technological resources

LOJIST hybridizes the work between humans and AMR by robotizing warehouse processes that were originally entirely manual.

Configure hybrid solutions by leveraging the benefits of AMR, Voice, Pick To Light, RTLS, and RFID to enhance human-machine coordination and revolutionize your processes.





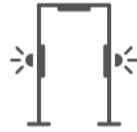
TO-BE process

Goods placement in the transit warehouse managed by the LOJIST platform, with digital mapping and RTLS technology for real-time traceability and immediate package localization



Goods receiving

Initial check of inbound packages in the transit warehouse



Inspection & weighing process

Automated verification through dynamic machine for fast and accurate data



Guided storage

Pallet placement optimized by the WES LOJIST with digital mapping



RTLS tracking

Label scanning and position storage with RTLS tags for maximum traceability



Quick search

Instant package localization via digital map, with accuracy up to 50 cm



Efficient shipping

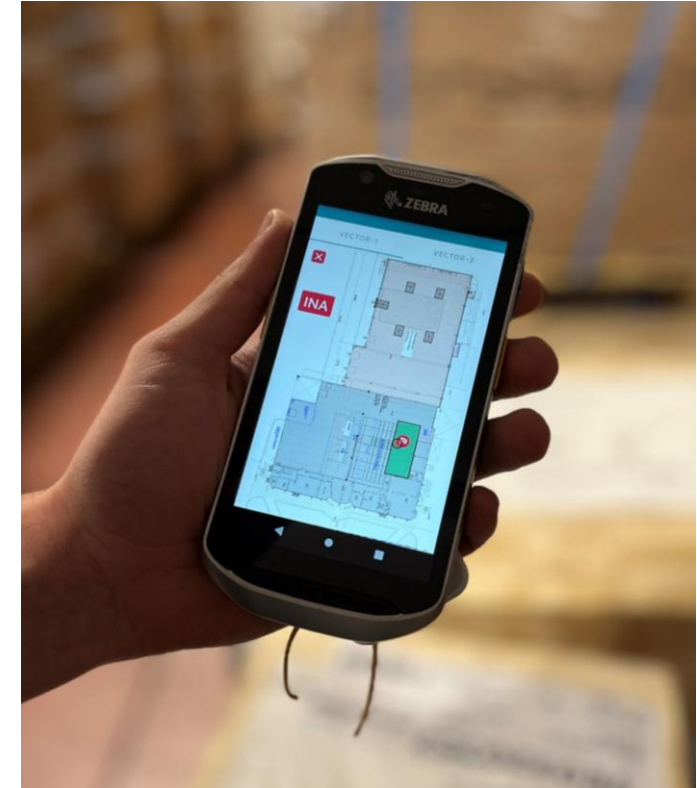
Final loading of goods onto outbound vehicles without time loss

Results

Thanks to the implementation of the KFI system, Vector has achieved a significant improvement in efficiency, accuracy, and work quality, with a positive impact also on operator well-being.

Achievement

- 6% productivity increase
- Localization accuracy within 50 cm
- Significant reduction in shipping errors
- Decrease in operator workload





An intuitive and innovative solution that earns trust

"Initially, the idea of implementing a new system raised concerns, but we were pleasantly surprised to find that its intuitiveness makes it accessible to everyone, from younger employees to more experienced operators. The integration of LOJIST and RTLS technology, along with other implementations and innovations introduced over time, allowed us to nearly double our pallet preparation record from 64 to 116. This reduced work time and boosted productivity by 6%. Not only did it enhance efficiency, but it also led to a reduction in errors and greater precision in operations without compromising service quality."

Ivan Ravasio

Logistics Manager

We Are Key For Industry

Since 1991, we have been supporting Supply Chain companies in their digital transformation, providing them with guidance and tools to tackle market challenges and gain new competitive advantages





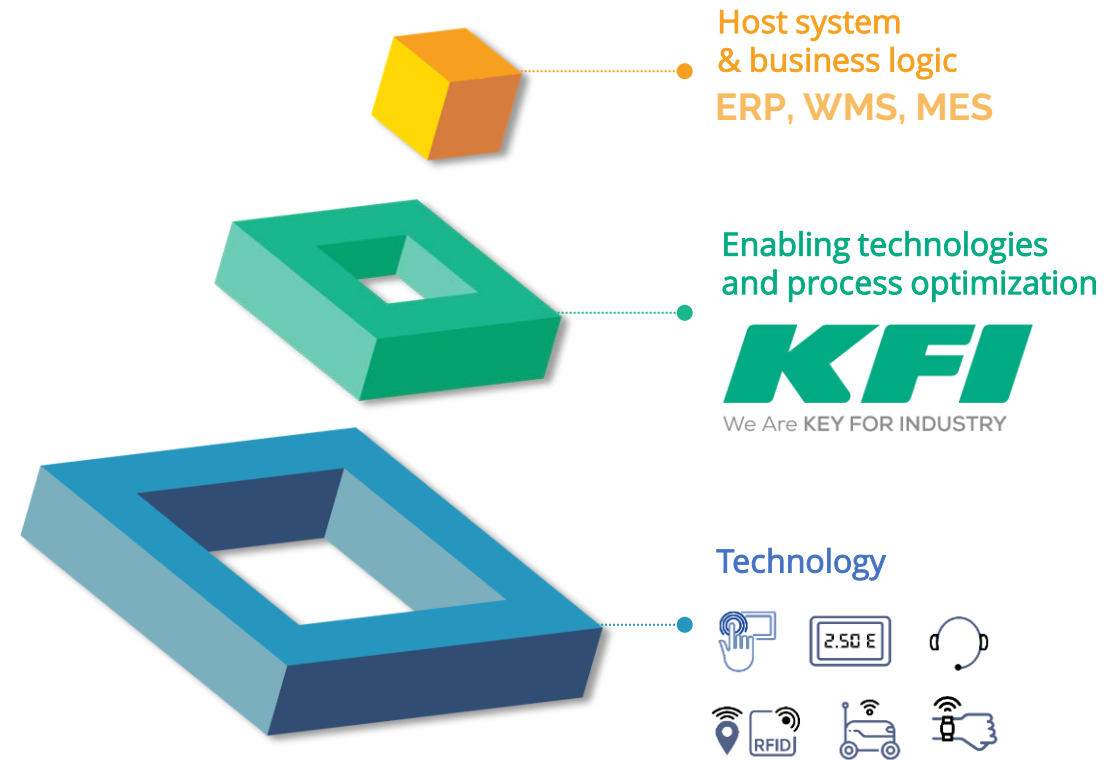
Industry Business is our Business

Our Mission

We make enabling technologies and solutions for Industry 5.0 accessible to all sizes businesses.

Business and process logic

- 01 Interfacing key host systems**
(business logics), enabling the use of modern technologies with optimized process logics.
- 02 Integrating and managing modern, supportive technologies** and data for processes in manufacturing, logistics and retail industries.
- 03 Providing the operational excellence** to existing businesses, with real time KPIs on processes, to quickly and flexibly reacting to changes in their markets.

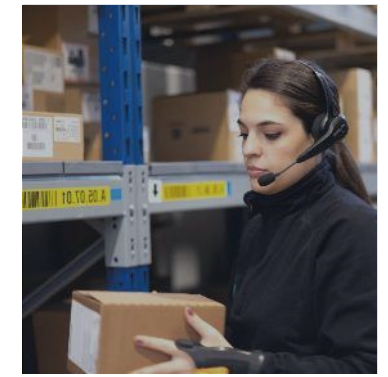


Our display window

Technologies



Robotics



Man - Machine Interfaces



Machine Vision & Fixed Scanners



Pick/Put-to-Light Systems



RFID / RTLS / AIDC



OEM and Specialty Printing

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