Exploring End-to-End Collaboration and the Critical Roleof Digitalisation in Healthcare Logistics



Jon Chapman

Vice President Healthcare K&N

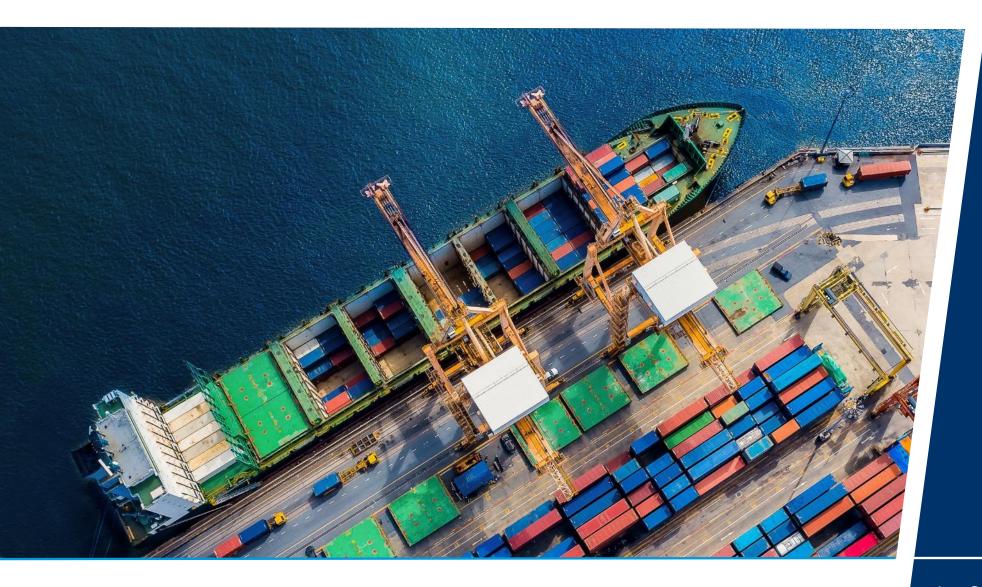


Henry Ames

General Manager,
Distribution and Logistics
TraceLink







Transportation & Logistics : End-to-End Collaboration and the Critical Role of Digitalization

Jon Chapman VP Healthcare Services, Kuehne+Nagel October 3rd 2024





Kuehne+Nagel in one day

16,500

Standard container (TEUs) shipped

77

Fully-loaded Boeing 747 jumbo jets

87,000

Trucking orders accepted

815,000

E-commerce shipments dispatched



Completeness of Vision



Old and new trends are impacting logistics

Consumer needs

Demographic shifts Rise of e-commerce



Supply chain challenges

Geopolitical events, trade barriers Agility and resilience Multi-sourcing



Competitive landscape

Customers / suppliers become competitors New entrants and "Digital" forwarders





Data & automation

Unique insights from data

New and better services

More efficient operations



Sustainability

Increasing regulation

Demand from customers

Generational shift



Transport capacity

Volatility
Low data quality



We are guided by our Vision 2030 and Roadmap 2026.

The four cornerstones of the Roadmap 2026 **Digital Ecosystem**



Our Goal: Improve the digital customer experience with value-added services by making the best use of all available data, increasing automation and efficiency, and evolving our technology in the cloud.

Key to Vision 2030: We gain trust by handling logistic needs reliably and efficiently, by proactively identifying and solving problems, by providing unique insights, and by making it easier to work with us.





Play the Video here





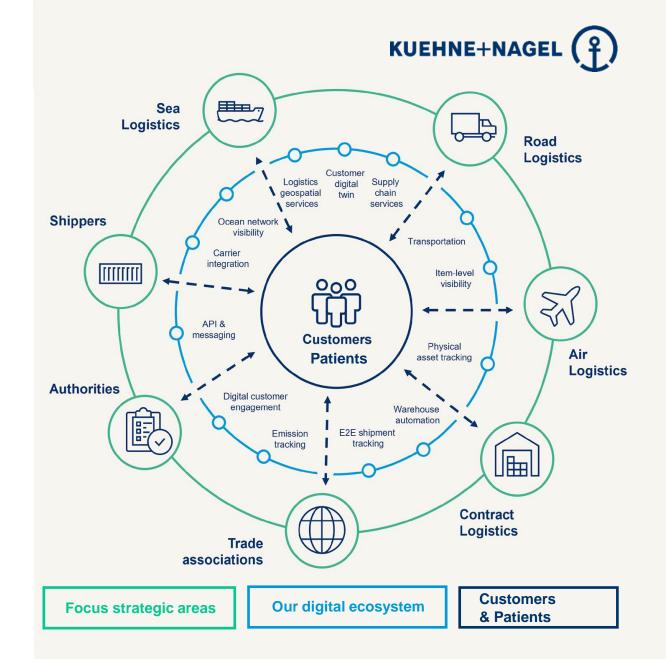
Kuehne+Nagel Digital Ecosystem

Cloud transformation

Data & Connectivity Platform

Al Platform

Digital Ecosystem Services





Living ESG: Sea Logistics Less Than Container Load



Enabled by tech. evolution and digitization Dataloggers

IoT Sensors **Delivery options** Real time HyperCare monitoring & proactive intervention **Road logistics Weekly departures Deliveries Daily delivery slots** 8am - 12am **De-consolidation** Consolidation **Sea Logistics** Warehouse Warehouse voyage **Road logistics** Pick-ups **Pick-up options** Optimized Sea Logistics for your HealthChain +15°C to +25°C product GXP COMPLIANT **Production** AUEHNE+NAGE



Customer Quality Advisory Board Feedback (March & Sept 2024)

Reduce temperature deviations by 50%

On-time delivery reliability (OTIF) above 95%

League table with best and worst performing lanes

Benchmark at lane level my performance with industry norm.

Eliminate situations with the same failure 3 times or more

Have at least 2 routing options for any currently failing lane

Eliminate mis-routings for my shipments completely

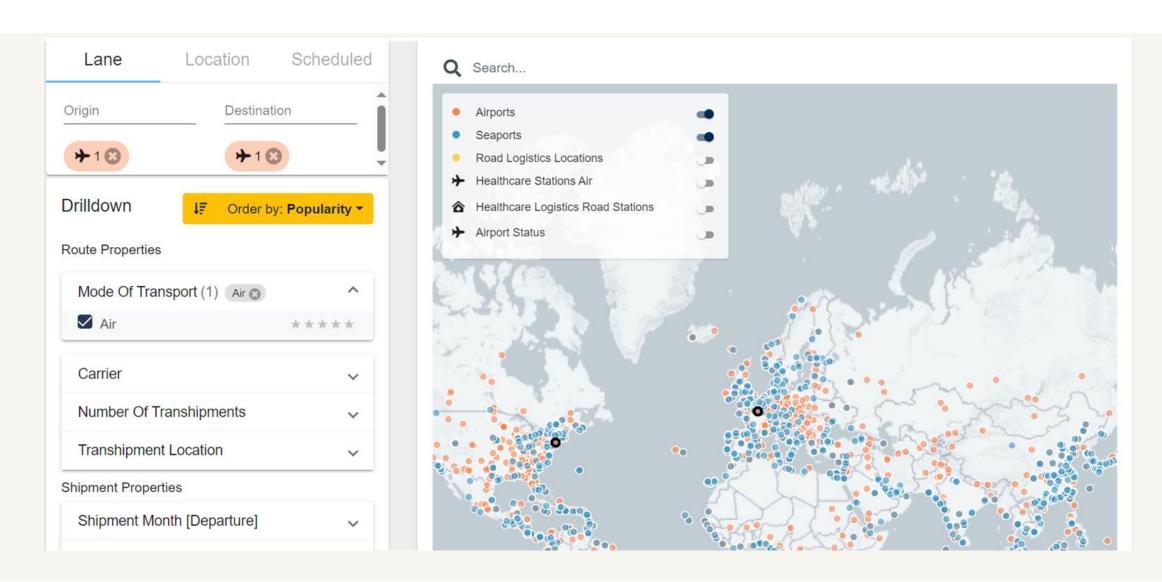
Reduce split shipments to less than 1 in 500 shipments



Network Analysis



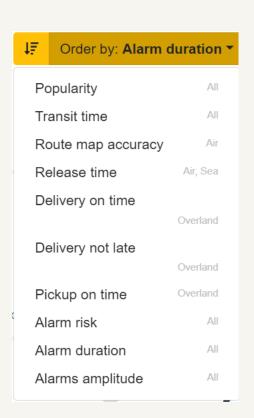
Collect, organise, filter and generate actionable insights

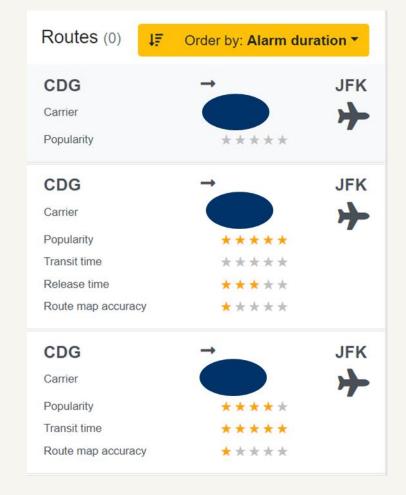


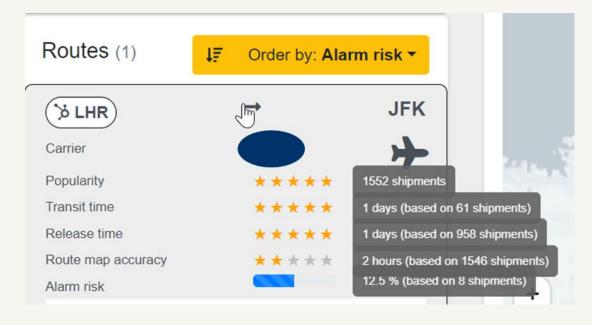
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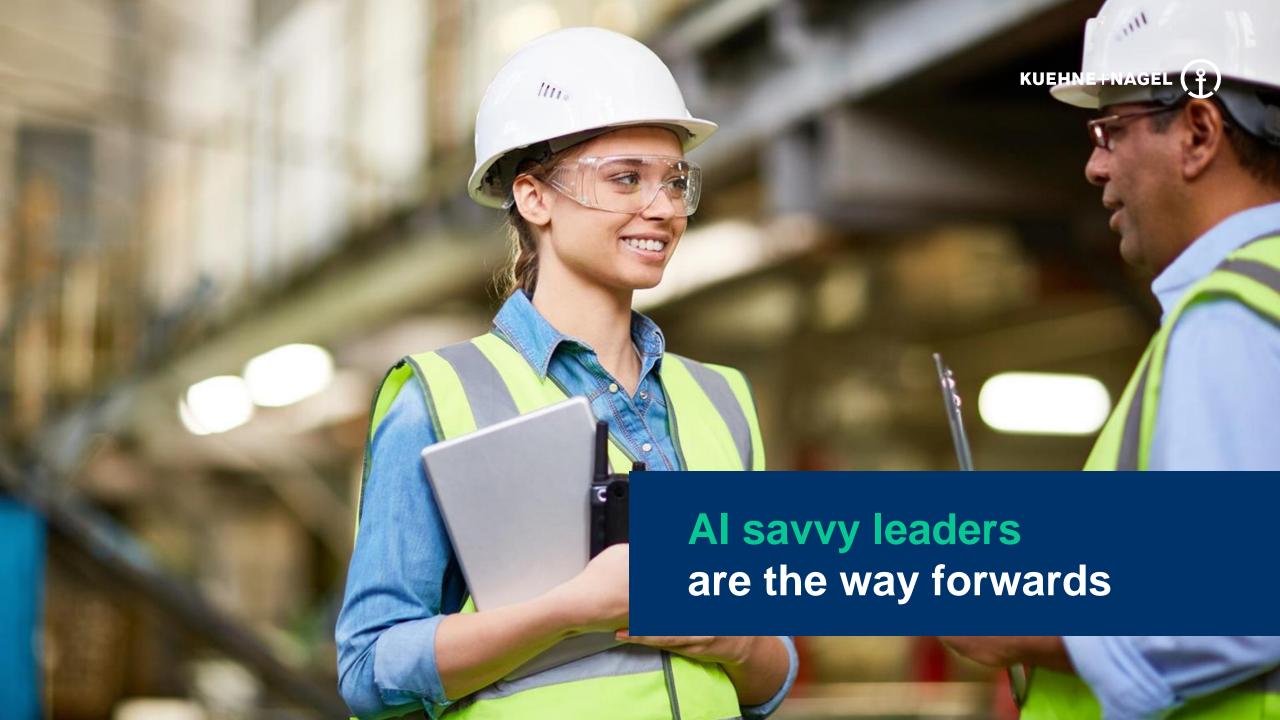


Our key principles for responsible Al



At Kuehne+Nagel, we are committed to leveraging the potential of Al for our business. That is why we have been working on establishing some ground rules and guidelines that will help us as a company and all our employees in developing and deploying Al effectively – and responsibly.

Put humans first, always **Design inclusively Promote fairness** Safeguard our IP Think green **Protect our privacy** Label it right **Keep it secure** Speak up



Data Gaps & Digitisation opportunities

Data Quality
 Complete and accurate in real-time

Consistent

LSP: BOL, AWB, CMR

Shipper: SKU, inventory

Piece Level
 Technology and cost constraints

Upstream and downstream
 Priority on contracted activities, not overall supply chain visibility or patient benefit



Key takeaways

Digital

Leverage digital and AI to innovate across the industry.

Sustainability & ESG

Leverage low-carbon solutions and promote circularity along the entire value chain

Resilience

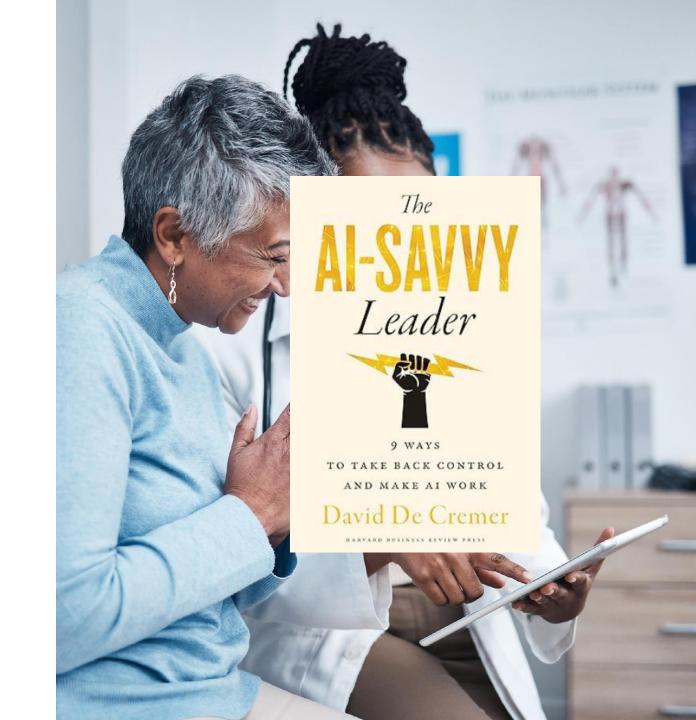
Strengthen supply chains via proactive and multifaceted risk management.

Ecosystem

Teamwork and data sharing. Patient outcomes improved through collaboration

Al wish to know more

Read the Al-Savvy Leader by David De Cremer



Inspire. Empower. Deliver.

