# Transportation Pulse Report 2026: Transportation Industry at Al Inflection Point as Adoption Accelerates

Transportation Pulse Report 2026 reveals AI is reshaping transportation management with data quality and network connectivity emerging as critical success factors

**WESTMINSTER, Colo., Dec. 17, 2025** — Trimble has released its annual <u>Transportation Pulse Report</u>, surveying over 230 supply chain and logistics executives across Europe and North America\* to assess Al's impact on transportation management and identify how the technology is transforming operations.

The report confirms transportation has reached an AI inflection point: the ways companies respond to the rapid development of AI within the sector may define their competitive edge for years to come.

### Adoption accelerates, data quality lags

Al adoption in transportation management is gaining momentum, though most companies remain in early stages:

- Shippers are experimenting across multiple areas: 44% of survey respondents are already using Al in transportation planning and optimization, with additional applications in freight procurement and real-time visibility.
- Carriers focus on pricing and tracking: 42% are deploying AI for pricing and lane optimization, with 39% using it for real-time tracking.

The limiting factor? Data quality. Inconsistent data remains the biggest obstacle to AI success, with shippers and carriers both citing it as their primary barrier to adoption.

# Al's top application: planning, pricing, execution

When asked where AI will have the greatest effect over the next 3-5 years, shippers and carriers are using AI to fine-tune transportation planning, prizing and execution. But their priorities differ:

- Shippers prioritize transportation planning and optimization 86% expect Al to significantly impact this area.
- Carriers focus on pricing and lane optimization 59% identify this as Al's main value driver.

Respondents note a shift from early-stage experimentation with AI to now focusing on leveraging the technology for measurable efficiency gains.

# The rise of Al agents

Survey respondents pointed to distinct opportunities for Agentic AI, autonomous software agents that monitor data, make decisions and execute tasks within defined boundaries:

- For shippers, opportunities to improve workflows through the use of Agentic AI include real-time ETA monitoring (52%), with route/network optimization and carrier selection and tendering also emerging as priorities.
- For carriers, the priorities are ETA calculation and alerting (59%), with route and fuel optimization and spot quote negotiation also ranking high on the list.

Despite the potential of automation, two-thirds of shippers and more than half of carriers still see Al's primary role as augmenting human decision-making rather than replacing it, with most preferring human-in-the-loop approaches.

Still, this marks a turning point: logistics teams are in the early stages of trusting systems to act on their behalf and not just provide insights.

# A connected ecosystem boosts AI value

The report emphasizes that Al's full potential emerges within connected ecosystems that enable seamless data exchange, not locked in company silos:

• 43% of shippers cite enhanced predictive capabilities (ETA accuracy, disruption risk management) as the top benefit of combining AI with network-based TMS, while 55% of carriers see the biggest benefit in smarter load matching.

Jonah McIntire, chief product and technology officer, transportation and logistics at Trimble, commented: "The true value of Al

lies not just in the technological innovation itself, but how quickly and effectively it can be operationalized and integrated throughout your supply chains. The companies that embrace AI across their systems, partners, and people, will deliver faster, smarter and more efficient operations and better business outcomes for their customers."

The full report is available here: https://transportationinfo.trimble.com/pulse-report-2026-gated/

\* Survey conducted August-September 2025, gathering 230+ responses from shipper supply chain executives and carrier/LSP leaders in the EU and US, supplemented by interviews with transportation executives at Transporeon Summit 2025.

#### **About Transporeon**

At Transporeon, a Trimble Company, our mission is to bring transportation in sync with the world. We power the largest global freight network of more than 1,500 shippers and retailers and more than 180,000 carriers and logistics service providers. Every day they execute more than 115,000 transports on our platform and book more than 110,000 time slots.

Transporeon connects all actors along the supply chain. It facilitates collaboration between the different parties, helps to automate manual processes and provides valuable real-time insights. Its modular solutions solve specific logistics challenges and range from deal making, transport assignment and dock and yard management to freight audit. The platform provides insights into logistics operations, market developments and sustainability data, next to ensuring transparency in the supply chain through visibility. It works worldwide and across all modes of transportation, empowering logistics teams to move, manage and monitor freight.

Transporeon is headquartered in Ulm, Germany, and maintains 20 offices around the globe with over 1,400 employees across 25 countries. For more information, visit: www.transporeon.com.

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