

C3 AI Supply Network Risk

Anticipate Risk, Adapt with Speed, and Build Resilience



10%

Increase in OTIF performance



65%

Reduction in critical stockouts



55%

Increase in lead time prediction accuracy



99%+

Inventory service levels for critical SKUs

C3 AI® Supply Network Risk empowers supply chain teams to build resilient, agile supply networks with real-time visibility, predictive insights, and AI-driven network optimization. The application unifies enterprise and external data (e.g., supplier, inventory, customer, transportation management, bill of materials, market data, disruption events, supplier ratings), enables end-to-end tracking of orders —from suppliers and logistics providers to warehouses and customer shipments, and applies AI models to predict lead times, disruptions, and delays. For at-risk orders, users can access alternate sourcing recommendations and mitigation actions to avoid outages and enhance network resilience.

Feature Summary

- **Real-time network visibility:** Monitor facilities, suppliers, orders, and material flows of the entire supply network with geospatial views.
- **Scenario modeling:** Simulate “what-if” scenarios to assess immediate network risks and evaluate impact to improve network resiliency.

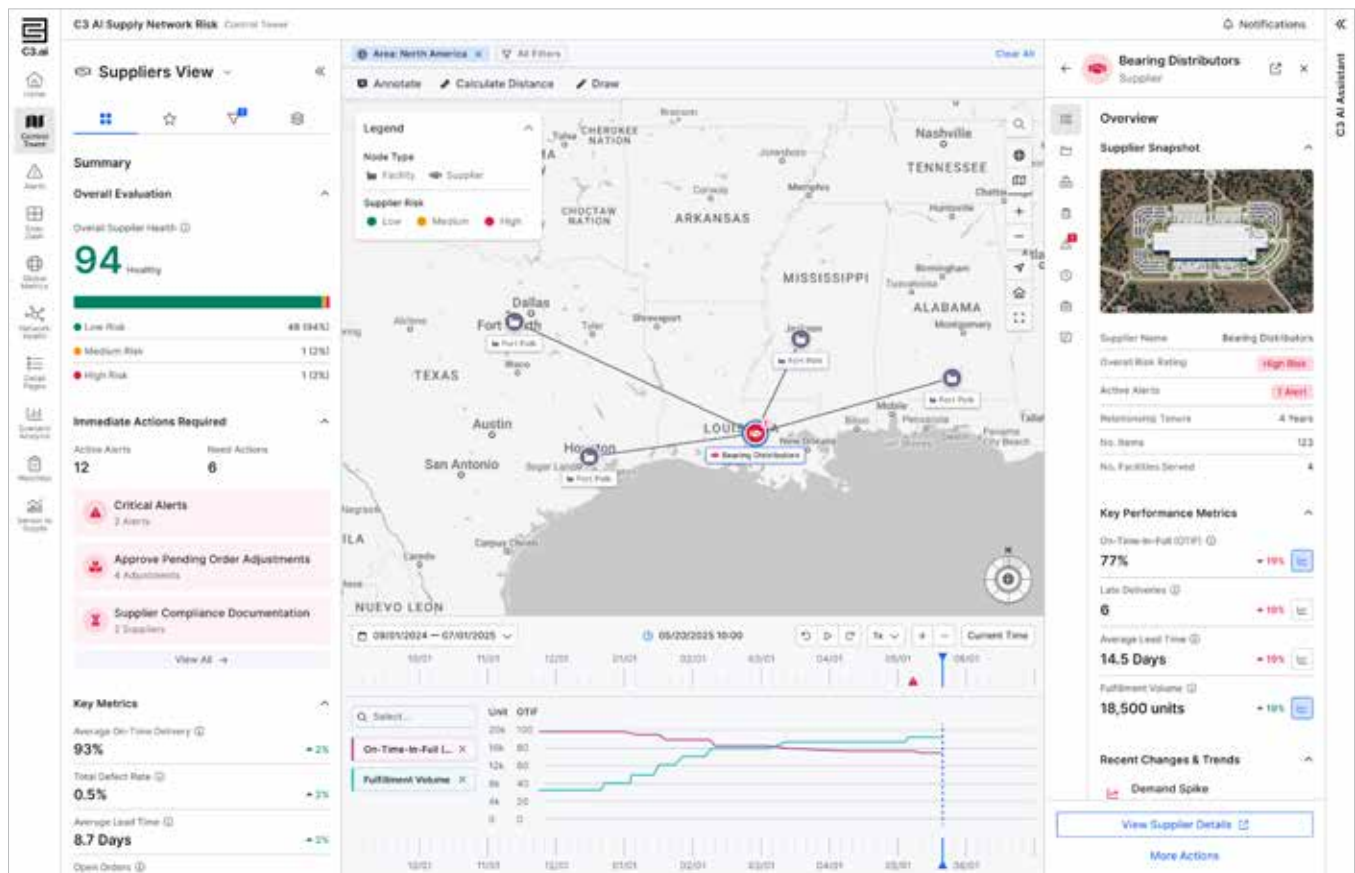






Figure 1. C3 AI Supply Network Risk provides a unified view for monitoring and managing supply chain operations.

C3 AI Supply Network Risk provides a single pane of glass for monitoring and managing supply chain operations. Built on the C3 AI Supply Chain Digital Twin, the application provides real-time, end-to-end visibility across the supply chain network – from supply orders and third party logistics providers to inventory transfer across warehouses to shipments to customers. With improved visibility, organizations can anticipate and respond to delivery risks before they impact customers. The application predicts which order lines are at risk and provides AI-driven insights into root causes. Based on root causes, it provides recommended actions, such as rerouting inventory or reprioritizing orders, to enable proactive risk mitigation and OTIF improvements.

The application uses predictive machine learning models to simulate and optimize network configurations with what-if scenario analysis and stochastic modeling that account for real-world uncertainties like demand shifts and supplier delays and analyze the impact of these uncertainties on the network across KPIs such as lead times, supplier performance, and network costs. Within scenarios, users can review real-time recommendations to reduce costs, improve service levels, and enhance network resilience.

Additionally, C3 AI Supply Network Risk incorporates AI agents and agentic workflows to deliver dynamic insights and scenario narratives. AI agents strengthen decision-making and accelerate time to insight by automating complex data and scenario analyses. Users can interact with AI agents through natural language, enabling teams to shift focus from manual tasks to strategic decision-making.

C3 AI Supply Network Risk is designed to support key supply chain roles across industries including:

 <p>Chief Supply Chain Officers</p> <p>Align operations with business goals through predictive insights & AI-driven risk mitigation</p>	 <p>Supply Chain Managers</p> <p>Monitor end-to-end, anticipate disruptions, and take proactive actions</p>	 <p>Analysts</p> <p>Simulate scenarios, investigate root causes, and generate data-driven recommendations</p>	 <p>IT & Digital Leaders</p> <p>Accelerate enterprise-wide digital transformation by scaling across the supply chain network</p>
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The application empowers supply chain teams to address key operational risks and improve performance across the end-to-end supply network:

Supply Chain Challenges	How C3 AI Empowers Supply Chain Teams
Limited visibility into supply chain	Provides real-time, end-to-end visibility across suppliers, logistics, warehouses, and customer shipments
Inaccurate or static lead time predictions	Applies AI models to generate accurate lead time predictions and continuously update predictions based on real-time data
Unpredictable delays and stockouts	Detects at-risk orders, forecasts delays and stockouts, and recommends actionable insights to improve delivery reliability and customer satisfaction
Reactive risk management	Enables real-time alerts, impact analysis, and scenario planning to support fast, informed decisions during unexpected events

Feature Summary (cont.)

- **Stochastic planning:** Incorporate uncertainty into decision-making for robust, resilient strategies.
- **Accurate lead time prediction:** Use AI-based lead time models that continuously update to provide the most accurate lead time prediction before and during the life of an order.
- **Predictive risk detection:** Identify at-risk orders using machine learning and understand risks via detailed AI evidence packages.
- **Network optimization:** Identify and prioritize the most critical nodes in your network—where to locate, optimize, and invest—from sourcing and manufacturing to distribution and transportation.
- **Agentic AI workflows:** Automate supply chain operations by autonomously identifying issues, prescribing actions, and executing decisions with AI agents.
- **Remediation recommendations:** Take action on delayed orders with alternate sourcing and transport options.
- **Continuous monitoring:** Compare optimized plans with actual outcomes to refine future decisions.

Fast, Proven Results in Initial Production Deployment

Visit C3.ai/get-started