

Supply Chain Resilience in 2025: The New Imperative and How AI Planning Software Delivers



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Executive Summary

Supply chain resilience is no longer a “nice-to-have”, it is a business imperative for 2025 and beyond.

As disruptions become increasingly routine and frequent, organisations face growing pressure to anticipate, absorb and recover from shocks faster and more effectively than ever before.

The ability to respond rapidly to unexpected events, whether supply shortages, transportation delays, geopolitical tensions or sudden demand fluctuations has become a critical factor in maintaining competitive advantage and operational continuity.

This white paper examines the key drivers behind the growing imperative for supply chain resilience and why building robust, adaptable networks is essential in today's volatile environment.

It explores the fundamental technical foundations that underpin resilient supply chains, including real-time data integration, advanced analytics, flexible resource allocation and continuous monitoring.

Central to this transformation are AI-powered planning platforms, which are reshaping traditional approaches to risk management, business continuity and recovery. These intelligent systems empower organisations to detect risks early, simulate potential impacts, dynamically adjust plans and coordinate seamless responses across complex supply chain ecosystems.

Designed specifically for supply chain leaders and practitioners, this paper provides actionable frameworks that translate resilience concepts into practical steps. It also delivers in-depth technical insights into how AI-driven tools enable faster decision-making, improve visibility and foster collaborative execution.

Introduction: The Era of Disruption

Disruption has become the new normal for global supply chains. Events that were once extraordinary, such as pandemics, cyber-attacks, extreme weather and geopolitical shocks, are now routine occurrences that pose significant risks to supply continuity, revenue streams and corporate reputation.

These frequent disruptions challenge traditional supply chain models and demand a fundamental rethink of resilience and risk management strategies.

The global supply chain landscape is at a pivotal crossroads. Leaders must embrace innovation and develop foresight to anticipate cascading impacts that ripple through increasingly complex and interconnected networks. The accelerating pace and severity of disruptions have pushed resilience, defined as the ability to absorb shocks and recover rapidly from a peripheral concern to a central pillar of supply chain strategy.

Companies that embed resilience into their core operations are better positioned to maintain stability, meet customer expectations and sustain competitive advantage in an unpredictable world. Resilience today requires more than just contingency planning; it demands agility, real-time visibility and advanced analytics to predict, prepare for and swiftly respond to disruptions as they arise.

The integration of digital technologies, especially AI-powered planning and monitoring tools, is proving critical in transforming how organisations manage risk and continuity across the supply chain. By leveraging these innovations, supply chains can evolve from reactive problem solvers to proactive enablers of business growth and stability amidst turbulence.

In this challenging environment, supply chain leaders must balance risk mitigation with operational efficiency, all while navigating regulatory pressures, geopolitical tensions and shifting market demands. The organisations that master this balance will build stronger, more adaptive supply chains capable not only of weathering shocks but also of capitalising on emerging opportunities in a rapidly evolving global economy.

What is Supply Chain Resilience?

Supply chain resilience is the capacity of an organisation to anticipate, prepare for, respond to and recover from a broad spectrum of disruptions while maintaining critical operations and ensuring uninterrupted supply.

This capability goes beyond merely bouncing back after a crisis. It involves establishing adaptive and robust systems that can flex, evolve and transform in response to an increasingly uncertain and complex global environment. Resilience has become a strategic imperative for businesses aiming to sustain competitive advantage, safeguard revenue and uphold stakeholder trust in the face of ongoing disruptions.

From a technical standpoint, resilient supply chains harness the power of sophisticated digital platforms, advanced analytics and integrated collaborative networks to anticipate risks early, simulate and model a variety of disruption scenarios, automate appropriate responses and monitor recovery processes continuously in real time. These capabilities are underpinned by technologies such as artificial intelligence (AI), machine learning and cloud computing that provide end-to-end visibility, dynamic resource allocation and agile decision-making.

Building resilience requires not only technological investment but also organisational alignment and collaborative partnerships across the entire supply chain ecosystem including suppliers, logistics providers and customers. Regular risk assessments, scenario planning and process optimisation are critical to identifying vulnerabilities and enhancing the supply chain's flexibility and responsiveness. Companies are increasingly adopting a tailored approach that balances risk mitigation with operational efficiency, recognising that resilience is a continuous journey rather than a one-time achievement.

Recent industry research highlights several best practices essential for advancing supply chain resilience. These include leveraging AI-driven demand sensing to predict shifts in real time, maintaining diversified and competitive supplier bases and fostering strong supplier collaboration to enable rapid adjustments to changing circumstances. Continuous monitoring and data-driven insights provide proactive risk management, allowing organisations to transform reactive disruption responses into strategic competitive advantages.

In an era where disruptions such as pandemics, cyber-attacks, extreme weather and geopolitical tensions have become standard challenges, the strategic integration of technology, process and partnership is key to enabling supply chains that do not only survive shocks but thrive by adapting quickly and effectively.

The Cost of Fragility

Fragile supply chains face serious risks threatening business continuity and growth:

- **Revenue loss:** Delays, shortages and lost sales during disruptions are common. Research from A.P. Moller-Maersk shows over 76% of European shippers experienced supply chain disruption in 2024, with nearly 25% facing multiple severe incidents. These interruptions directly impact revenue and customer satisfaction.
- **Reputational damage:** Failure to meet delivery commitments erodes trust with customers and partners. According to WTW's 2025 Global Supply Chain Risk Report, reputational risk is now a top concern for 67% of businesses, up from 41% in 2023.
- **Operational chaos:** Fragile supply chains force teams into firefighting rather than proactive planning, causing inefficiency, higher costs and burnout. Agile coordination is crucial to avoid this.
- **Cascading failures:** Disruptions in one area quickly spread across interconnected networks. The World Economic Forum highlights the growing impact of geopolitical instability, misinformation and cyber-attacks on global supply chains.
- **Regulatory and compliance risk:** Failing to meet evolving standards during crises can lead to fines and lost market access. EiQ's 2025 outlook highlights ongoing labour rights and transparency issues.

Research insight:

Organisations with resilient supply chains, those that anticipate, absorb and recover fast, outperform peers. The *2025 State of Supply Chain Report* shows leading companies invest in AI-driven demand sensing, diversified sourcing and collaborative risk management.

Diversified supplier bases mitigate geopolitical risks from conflicts like Russia-Ukraine and US-China tensions. Cybersecurity is critical, with Gartner predicting 45% of organisations will face software supply chain attacks by 2025, tripling 2021 figures.

Resilient supply chains blend technology, partnerships and governance to not just survive disruptions but seize new opportunities in uncertainty.

Forces Shaping the Resilience Imperative

Geopolitical Shocks

Trade wars, sanctions and shifting alliances force businesses to quickly reconfigure suppliers, routes and sourcing strategies.

Tensions between major economies, regional conflict and protectionist policies demand agile adaptation. Organisations must navigate complex trade agreements and tariffs while preparing for retaliatory disruptions.

Conflicts such as those between the U.S. and China or in Eastern Europe push companies to diversify suppliers and routes to reduce risk.

Cyber Threats

Sophisticated cyber-attacks disrupt IT systems, data flows and expose vulnerabilities across suppliers. These include ransomware and software compromises.

Organisations must prioritise cybersecurity through AI-driven detection, vulnerability assessments and partner collaboration.

As digitalisation increases, so does exposure, making cybersecurity vital for resilience.

Climate and Environmental Disruptions

Rising floods, storms and wildfires require rapid rerouting and contingency plans. Organisations integrate climate risks into planning, identify weak network points and develop multi-modal transport to maintain continuity.

Demand for green supply chains from regulators and consumers also grows.

Pandemic and Health Risks

COVID-19 revealed critical supply chain vulnerabilities to health crises.

Preparedness now includes stockpiling, diverse suppliers and remote operations.

Investments in predictive analytics and collaboration support rapid crisis response.

Pandemic risk has become permanent, requiring ongoing scenario planning.

Regulatory and Compliance Pressure

Evolving regulations increase pressure on supply chains to adapt and document compliance. Requirements span trade, environment, social responsibility and data governance.

Investing in real-time monitoring and automation is key to avoiding fines and reputational harm.

The Five Pillars of Resilient Supply Chains

Early Risk Detection:

Proactively identifying emerging threats across the supply chain is vital. Using advanced analytics and real-time data, organisations can spot issues, like supplier delays or geopolitical disruption, before they escalate.

This early warning system enables mitigation strategies to be implemented swiftly.

Scenario Simulation:

By modelling and stress-testing potential disruption scenarios through digital twins and “what-if” analysis, companies can better understand impacts from events such as pandemics or cyber-attacks.

Scenario simulation supports the creation of robust contingency plans and optimises resource allocation, ensuring readiness for both expected and unpredictable risks.

Automated Response:

Automated workflows and predefined action plans enable quick, coordinated action when disruptions occur. Systems can trigger measures like rerouting shipments or engaging alternative suppliers in real time.

Automation reduces manual delays and human error, containing disruption before it spreads.

Continuous Monitoring:

Maintaining resilience requires real-time tracking of operations, inventory and supplier performance.

Leveraging IoT devices and control towers, continuous monitoring provides immediate visibility into supply chain health, enabling prompt identification of new risks and supporting agile recovery.

Collaborative Recovery:

Effective restoration relies on collaboration across internal teams and external partners.

Coordinated action ensures alignment, rapid mobilisation of resources and efficient execution of recovery plans, helping supply chains return to normal quickly and strengthening future resilience.

Why Traditional Risk Management Falls Short

Traditional risk management approaches within supply chains exhibit several significant shortcomings that limit their effectiveness in today's fast-changing and complex environment.

Reactive:

Such methods typically focus on updating plans only after disruptions have occurred rather than anticipating potential risks beforehand. This reactive stance delays mitigation efforts and increases overall disruption impact, causing organisations to miss vital opportunities to prevent crises before they escalate.

Manual:

Many traditional risk assessments depend heavily on manual data collection, analysis and reporting. This not only slows down response times but also introduces the risk of human error and inconsistent interpretations, reducing an organisation's ability to respond swiftly and effectively to emerging threats.

Siloed:

In numerous organisations, data and risk management teams operate in isolation, separated by functional or geographic boundaries. This fragmentation results in limited end-to-end visibility across the entire supply chain, hindering a cohesive, holistic understanding of risk exposure and delaying coordinated risk response efforts.

Static:

Traditional risk models are generally updated only periodically, often quarterly or annually. Such infrequency means organisations frequently rely on outdated risk profiles that fail to reflect emerging and evolving threats in today's volatile global landscape, such as geopolitical tensions, cyber threats, or climate-related risks.

Result:

As a consequence, organisations relying on traditional risk management often find themselves caught unprepared or overwhelmed when disruptions occur.

Their inability to anticipate, prevent or quickly contain cascading failures leads to extended operational interruptions, financial losses and potential reputational damage.

Without moving towards more proactive, integrated and dynamic risk management frameworks, companies will remain at significant risk amid the increasing pace and complexity of supply chain challenges.

Technical Deep Dive: How AI Planning Software Enables Resilience

Predictive Analytics

Functionality

AI systems ingest vast amounts of diverse data streams, including market signals, weather forecasts, geopolitical news, supplier performance metrics, transportation status and cyber threat intelligence.

Using advanced machine learning models, the software detects anomalies, emerging trends and early warning signals that may precede significant disruptions.

These predictive capabilities forecast the likelihood and potential impact of disruptions, enabling organisations to prioritise response strategies, optimise inventory levels and adjust delivery schedules proactively, minimising adverse effects on the supply chain.

Technical Features

Robust real-time data pipelines aggregate information from Internet of Things (IoT) sensors, enterprise resource planning (ERP) systems, customer order platforms and various external APIs such as weather services and regulatory bodies.

Machine learning techniques, including supervised and unsupervised learning, are used for anomaly detection, trend analysis and pattern recognition.

Natural language processing (NLP) parses unstructured data from news outlets, social media and official updates, providing timely risk insights tied to global events.

Value

By delivering early, actionable, data-driven risk insights, predictive analytics empower supply chain teams to take pre-emptive measures that mitigate threats before escalation.

This proactive approach improves operational continuity, reduces emergency costs and enhances customer satisfaction by maintaining reliable service levels and minimising delays, strengthening long-term supply chain resilience.

Digital Twins

Functionality

Digital twins create virtual models of the entire end-to-end supply chain, mirroring real-world operations across suppliers, manufacturing sites, warehouses, transport routes and delivery points.

Unlike traditional simulations relying mostly on historical data, digital twins integrate real-time data from IoT sensors, ERP systems and external sources, providing a dynamic, current view of supply chain status.

They simulate various disruptions such as port closures, supplier failures, cyber-attacks and natural disasters. This supports testing contingency plans and “what-if” scenarios under real market and operational conditions.

Digital twins allow organisations to stress-test multiple simultaneous disruptions to locate weak points and optimise recovery pathways, fostering proactive resilience.

Technical Features

- **Graph Databases:** Represent supply chain nodes and complex interconnections, capturing cross-dependencies that traditional databases cannot model effectively.
- **Real-Time Data Integration:** Continuously ingest live data from IoT devices monitoring inventory, shipments, environmental conditions and asset health, integrating with ERP and transportation management systems. Cloud and edge computing support low-latency updates.
- **Scenario Engine:** Enables multi-factor stress testing to simulate impacts from geopolitical shifts, weather events, demand surges and supplier disruptions, helping quantify ripple effects and guide strategic decisions.

Value

- **Enhanced Visibility and Foresight:** Provides near real-time, comprehensive views of supply chain operations and vulnerabilities, enabling early anticipation of disruption impacts.
- **Optimised Contingency Planning:** Allows companies to test and refine mitigation strategies and alternative routing before disruptions, reducing costly delays and shortages.
- **Validated Recovery Strategies:** Supports validation and continuous improvement of recovery plans, accelerating restoration while minimising downtime.
- **Improved Collaboration and Agility:** Offers a unified platform for better coordination across teams and partners, enabling rapid, efficient recovery.

Automated Response

Functionality:

Automated response systems use AI to trigger predefined and adaptive actions immediately upon detecting supply chain disruptions. Examples include rerouting shipments around affected areas, switching to alternative suppliers when a primary source fails or activating backup production and distribution facilities to maintain continuity. These systems dynamically prioritise actions based on the severity and nature of the disruption, ensuring resources are deployed where they have the greatest effect.

Moreover, automated response orchestrates complex workflows that span multiple internal teams, such as procurement, logistics and operations, as well as external partners and suppliers.

This coordination helps minimise downtime by ensuring each stakeholder knows their role and timing, accelerating recovery and limiting the impact on customers.

Technical Features:

Built on robust rule-based automation engines and event-driven architectures, automated response platforms continuously monitor real-time data feeds for disruption signals. Once a trigger event is identified, the system evaluates pre-configured protocols and selects the most appropriate mitigation actions.

These platforms integrate seamlessly with transport management systems (TMS), procurement applications, supplier portals and warehouse management systems, providing end-to-end process visibility and control.

Automated communication tools facilitate rapid task assignment and status updates across distributed teams and supply chain partners, ensuring prompt and consistent execution. Additionally, machine learning components enable the system to learn from past disruptions, improving response accuracy and efficiency over time.

Value:

Automated response significantly reduces the reliance on manual decision-making and intervention, cutting critical response times from hours or days to minutes.

This acceleration is crucial in containing disruption spread, preventing small issues from escalating into major operational failures. By enabling swift, coordinated action, these systems protect service levels and revenue, reduce emergency operational costs and enhance overall supply chain resilience.

Organisations gain increased confidence and agility, as automated response capabilities facilitate more predictable outcomes in the face of uncertainty, enabling them to maintain competitive advantage even during crises.

Risk Scoring

Functionality:

AI systems continuously evaluate the vulnerability of suppliers, routes, facilities and other critical supply chain nodes in real time.

Risk scoring incorporates multiple factors such as historical supplier performance, geographic exposure to risks like geopolitical instability or natural disasters, financial health indicators and regulatory compliance status.

The system generates dynamic composite risk scores reflecting current conditions and emerging trends, enabling early identification of risks, timely re-prioritisation of mitigation efforts and greater responsiveness to sudden changes in the supply environment.

Technical Features:

Platforms use multi-factor risk models combining structured data (transaction records, financials) and unstructured data (news, social media sentiment, regulatory updates). Advanced analytics and machine learning detect patterns and anomalies.

Scores update dynamically as new data arrives. Benchmarking compares suppliers and routes against industry norms and peers, highlighting high-risk nodes.

Integration with supplier management and contract systems connects risk evaluation directly to sourcing workflows and compliance tracking.

Value:

Continuously updated risk scores help organisations prioritise mitigation resources effectively on high-exposure suppliers or routes.

This supports strategic initiatives such as supplier diversification, network redesign and contingency planning, thereby significantly improving overall supply chain resilience.

Risk scoring also strengthens insurance underwriting by providing detailed exposure metrics and enhances compliance efforts through early detection of regulatory gaps, minimising financial penalties and reputational damage.

Ultimately, it empowers more informed, agile decision-making, reducing supply chain vulnerability and stabilising operations in complex, volatile markets.

Resilience Dashboards

Functionality:

Resilience dashboards provide real-time visualisation of critical supply chain weak points, ongoing disruption status and recovery progress.

These dashboards continuously aggregate and synthesise data from multiple systems such as supply chain Control Towers, IoT devices, supplier performance feeds and risk scoring models to offer a comprehensive situational overview.

They should be fully customisable to meet the needs of different stakeholders, including C-suite executives who require high-level summaries and KPIs, planners who need detailed operational insights and frontline teams responsible for managing day-to-day recovery efforts. This tailoring ensures that each audience receives relevant, actionable information tailored to their decision-making requirements.

Technical Features:

Modern resilience dashboards leverage interactive visualisation tools that allow users to drill down from aggregated metrics into granular data layers such as individual supplier risk scores, shipment tracking details or production line status.

These platforms often incorporate AI-driven anomaly detection and alerting mechanisms to highlight emerging issues proactively. Automated report generation capabilities facilitate compliance reporting and audit preparation, producing standardised and custom reports that document disruption impacts, response actions and recovery effectiveness.

Integration with enterprise collaboration tools ensures key insights are shared promptly across teams and external partners, enhancing alignment and situational awareness.

Value:

By delivering accurate, timely and tailored visual information, resilience dashboards empower organisations to make rapid, data-driven decisions during crises.

This enhances responsiveness and coordination across functions, reducing reaction times and mitigating disruption impacts. Improved clarity and transparency also strengthen communication with stakeholders, including customers, regulators and suppliers, fostering trust and confidence.

Ongoing insights gained from dashboard analytics support continuous improvement of resilience strategies and readiness for future events, contributing to long-term supply chain robustness and agility.

Implementation Roadmap: Building Resilient Supply Chains

Risk Assessment:

- Begin by thoroughly mapping your entire supply chain ecosystem, detailing all suppliers, production sites, transportation routes and distribution centres.
- Identify and prioritise critical nodes based on their strategic importance, risk exposure and potential impact on operations.
- Conduct comprehensive vulnerability assessments considering factors such as supplier financial health, geopolitical risks, operational reliability and environmental threats.

This foundational step establishes a clear understanding of where resilience efforts are most needed

Data Integration:

- Establish seamless connectivity between internal systems (e.g., ERP, inventory management, transport management) and a wide array of external data sources such as market intelligence, weather services, geopolitical news and supplier portals.
- Ensure that these data streams are integrated into a centralised platform capable of real-time data aggregation and harmonisation.

This integration provides a reliable, up-to-date data foundation essential for AI-driven analytics and decision-making.

AI Platform Deployment:

- Implement key AI components including predictive analytics for early risk detection, digital twins for virtual scenario modelling and automated response modules for rapid disruption management.
- Ensure careful configuration of machine learning models tailored to your supply chain's specific context and risk profile.
- Facilitate cross-functional collaboration during deployment, engaging stakeholders from procurement, logistics, operations and IT to maximise platform adoption and effectiveness.

Scenario Planning:

- Leverage digital twins and other simulation tools to run a broad spectrum of “what-if” scenarios including natural disasters, supplier insolvency, cyber incidents and transport bottlenecks.
- Use these simulations to evaluate the robustness of contingency plans, identify previously unrecognised vulnerabilities and optimise response strategies.
- Regularly update and refine scenario assumptions based on changing market conditions and emerging risks to maintain preparedness.

Response Automation:

- Define clear, automated triggers linked to early warning signals detected by AI analytics.
- Configure workflows that initiate immediate mitigation actions such as rerouting shipments, notifying alternate suppliers or activating backup facilities without manual intervention.
- Implement transparent escalation protocols to ensure critical decisions are made swiftly and communicated effectively across all relevant teams and external partners.

Continuous Improvement:

- Establish ongoing monitoring and measurement frameworks to track the effectiveness of resilience strategies in real-time.
- Analyse disruption outcomes and recovery performance to identify lessons learned and areas for enhancement.
- Adapt AI models and operational processes accordingly, fostering a culture of continuous resilience improvement.
- Incorporate feedback loops with supply chain partners to jointly evolve risk management best practices.

Measuring Resilience: Metrics and KPIs

Mean Time to Recovery (MTTR):

MTTR measures the average time from disruption onset to full operational restoration and reflects an organisation's ability to respond and recover quickly, effective contingency planning and efficient recovery.

Tracking MTTR trends gauges resilience progress over time.

Disruption Frequency and Severity:

This KPI tracks how often major disruptions occur and their impact. Frequency counts significant disruption events annually, while severity measures consequences like downtime, financial loss and customer dissatisfaction.

Analysing both offers a comprehensive view of vulnerability, guiding where to prioritise mitigation efforts to reduce occurrence and impact.

Supplier and Route Risk Scores:

This metric shows the percentage of suppliers, routes or nodes considered high risk based on factors like financial stability, performance, geographic exposure, compliance and operational reliability.

Monitoring changes in high-risk nodes over time reflects the effectiveness of risk reduction strategies such as diversification and route optimisation.

Automated Response Rate:

This rate measures the proportion of disruptions managed through automation rather than manual intervention. Automation includes AI-driven triggers for rerouting, supplier switching or activating alternatives without human input.

A higher rate indicates greater agility, faster response and reduced errors, signifying digital maturity and operational efficiency.

Customer Service Level During Disruption (OTIF):

OTIF delivery rate during disruptions assesses the ability to maintain customer commitments delivering orders on time, in full, despite supply chain challenges.

Sustained high OTIF shows effective demand-supply balancing, inventory management and contingency execution, directly impacting customer satisfaction and brand reputation.

Conclusion: Resilience is the New Baseline

As global markets grow increasingly complex and interconnected, the frequency and severity of disruptions, from geopolitical instability and natural disasters to cyber-attacks and supplier failures, are intensifying.

Traditional reactive approaches are no longer sufficient in this rapidly evolving environment. Organisations must fully embrace resilience as a fundamental capability to ensure business continuity, safeguard revenue streams, protect reputation and maintain sustainable competitive advantage.

Integrating cutting-edge predictive analytics, sophisticated digital twins, automated response systems and real-time visualisation dashboards, AI transforms vast data into actionable intelligence. These tools empower supply chain leaders to anticipate emerging risks ahead of time, conduct robust simulations of disruption scenarios, execute mitigation strategies swiftly and seamlessly and maintain end-to-end visibility throughout every stage of a crisis.

This advanced technology not only minimises risk but also reveals new opportunities arising from market volatility and shifting customer demands.

Organisations investing in resilience today will lead tomorrow. They are poised to navigate uncertainty with agility, protect their brand equity and consistently deliver superior customer experiences even amid severe disruptions.

Next Steps:

- Identify existing vulnerabilities and weaknesses in your supply chain and response processes.
- Focus on deploying predictive analytics, real-time data integration, digital twins and automation to enhance early warning capabilities and accelerate recovery.
- Encourage cross-functional collaboration, develop data literacy and decision-making skills among employees and establish governance frameworks that promote ongoing evaluation, learning and responsiveness to emerging risks.

Taking these proactive steps enables your organisation to transition from reactive risk management to a forward-looking, agile and resilient supply chain strategy that not only survives disruption but thrives amidst it.

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