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Managing supply chain risks and disruptions



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Overview

Supply chain disruptions whether by natural disasters, extreme weather, or global pandemics, are increasing in their number and intensity. These breaks mean that “in every year over the past several years, at least one company in twenty has suffered a supply-chain disruption costing at least \$100 million.” – Mckinsey. While organizations attempt to put business continuity plans in place, they are often ineffective as seen during the recent Covid situation, where over 94% of the Fortune 1000 companies experienced some sort of interruption (Accenture).

The current business environment has shown that a lack of visibility across the entire supply chain can result in unprecedented breakdowns at both the demand and supply sides of the equation. Organizations are unable to assess the risk profile from their supply base (including supplier’s supplier) along with their extended ecosystem of partners (logistics, financial partners) to respond rapidly. Compounding the situation, much of the required data is located across various systems and complex to understand and team members, who are now working remotely, lack the skills to take action.

Raw material and commodity industry supply chains are inherently complex, and often involve a different set of processes beyond traditional procurement including both physical as well as financial elements of the trade. They also include different teams who sit in various business functions. Lastly, the data and communication channels are often a mix of digital as well as paper, resulting in limited sharing and collaboration.

Bringing in digital technologies into your supply chain, provides you with a single source of truth into your operations. Additionally, superior collaboration capabilities across your extensive network lets you minimize impact of these disruptions. Cloud-based solutions equipped with advanced analytics help create a more responsive resilient supply chain.

Shortcomings of existing systems

Lack of end-to-end visibility and network collaboration

- Companies lack visibility into their supply chain operations beyond tier 1 suppliers. This leads to poor planning and tracking of orders, inventory, logistics and warehouse network, yard operations and more
- During a crisis organizations are unable to quickly visualize the issue and switch to secondary suppliers or regions to secure required inventory

Data contained in multiple systems and external sources

- Business critical information is stored in disparate systems – ERP, CRM, C/ETRM systems, spreadsheets, email exchanges. This is in addition to external data from all counterparties – suppliers, farmers, logistic partners, freight forwarders, manufacturers etc
- Communications across the ecosystem occurs disconnected from actual information flows related to business processes, resulting in back-and-forth status updates and complex handoffs that diminish efficiencies and responsiveness to market dynamics

Lack of digitization and information on the go

- Due to limited digitalization of the purchasing and supporting supply chain processes for these large-scale purchases, organizations are burdened with higher processing costs while reducing time the team can focus on higher value activities
- Paper-based processes – physical papers, copies, bill of lading and such. Companies are unable to complete critical processes due to preventive measures taken to control the crisis
- Workers on the move cannot be tied to a desktop—they need decision support wherever and whenever they are working

Advanced analytics and simulation models

- Limited skills across the supply chain and procurement organization reduces the ability of these teams to identify and positively impact the business
- Limited use of advanced AI/ML technology to assist and supplement for these reduced skills, with tools for scenario planning or to model new supply chain strategies has led companies to react rather than foresee the supply chain challenges
- Complex reporting capabilities has increased the dependency on IT teams. This in turn has prevented companies from effectively forecasting demand, define logistics network strategies, manage inventory, and improve supplier management and control

Your supply chain is delicate.
One broken link in the chain could impact your entire business significantly.

Eka Cloud Platform

Eka supply chain, built on Eka's Cloud Platform, enables flexibility and agility, so you can stay ahead in rapidly changing raw material and commodity markets.

Extend your value chain data with powerful enterprise applications

Unlock the value of your data from sourcing to trading and risk, supply chain and financial management with 50+ mobile applications.

Analytics for better visibility and faster decisions

Perform on demand analysis using trusted data with custom dashboards, drill downs, visualizations and embedded machine learning algorithms for anomaly detection.

Automate business processes faster

One platform makes it easier to transform complex processes into applications. Built-in schedulers, workflow engine and custom applications help drive productivity.

Integrate data and systems

20+ built-in connectors and open APIs enable you to easily bring external data from ERP systems and other sources including market, weather, compliance and your database.



Single open cloud platform



Low code/no code automation



Common data model



Role based data-driven insights



Mobile engagement, access everywhere

Security

Eka's platform complies with industry standard security guidelines, including SOC 2 Type I, SOC 2 Type II & GDPR. It has single sign-on via industry standard authentication protocols, encryption of data in transit and at REST, and is integrated with best-in-class DLP, EMM and archival partners. It has been validated under Veracode Verified Standard status.

Eka Cloud Platform for supply chain

Eka's supply chain management solutions deliver integrated, real-time applications for your raw material and commodity business by digitally transforming processes and connecting both within and outside your enterprise.

Eka provides customers a single extensible cloud native platform for supply chain, trading and risk, business collaboration and financial management equipped with advanced analytics, with robust application-based solutions to help companies prepare for their future growth. Eka's platform is purpose-built to help raw material companies across the world modernize their supply chains, optimize operations, increase collaboration and transparency.

Global trade and logistics

- Track and optimize movement of raw materials across multi-modal transportation – truck, rail, barge, bulk shipments, container vessels and more
- Collaborate seamlessly on a single platform with all counterparties, to manage trade compliance, invoices, documents, trade finance and more
- Data governance and management of digital records, automation through pre-build workflows and NLP driven forms to input data faster and on the go across devices
- Advanced analytics, reporting and scenario planning through simulation for real time decision-making

Warehouse and yard management

- Efficient planning and scheduling of stock across enterprise storage network, stock movement and associated transportation cost
- Real time visibility into order status, stock movement, vehicle mass management, billing, and invoice management
- Efficient inventory management through tracking for each location and centralized database to extract information across books, geographies, products and more
- Automate truck delivery, weighing function and outrun of the trucks at weighbridges or truck scales

Sustainability and traceability

- Trace origins of agriculture raw materials across the entire value chain – from farm to fork – powered by Blockchain technology
- Comparison of suppliers based on sustainability performance, price, delivery, quality etc. Identification of ethical suppliers, rating the suppliers eliminating the suppliers who are not in the shortlist (internal or external)
- Get reports on all materials used in production process, recall materials, store historical information and maintain and stock inventory

Supply chain disruptions are a reminder for companies to build resilient and sustainable supply chains to minimize the risks of current and future disruptions. Eka's digital supply chain solutions are built on years of understanding the nuances of raw materials and commodities businesses. Eka is dedicated to helping customers successfully manage their supply chain in the most challenging situations.

Key supply chain applications

Global trade and logistics

<p>Pt Physical Trades</p> <p>Manage multi-product, multi-grade, multi-location contracts. Manage price exposure in real time. Plan and track all tasks with workflow management.</p>	<p>Td Trade Margin</p> <p>Get detailed insights on the margins made in each trade. Simulate multiple scenarios, analyze the pros and cons for each option, and view the impact on margins before budgeting for a trade.</p>	<p>Cr Credit Risk</p> <p>Control counterparty risks and potential credit incidents before they occur with complete visibility into credit utilization and potential breaches</p>	<p>D Derivative</p> <p>Get end-to-end management of exchange traded and Over the Counter derivative contracts in one system for hedging and speculation</p>
<p>Rm Risk & Monitoring</p> <p>Define risk limit policies, analyze global risk across multiple portfolios and books, and track limit breaches and utilizations</p>	<p>Tf Trade Finance</p> <p>Get tangible cost benefits and make informed choices by evaluating possible outcomes based on rates, loan, and tenor across financial institutions.</p>	<p>S SCM (Logistics & Inventory & Settlement)</p> <p>Manage logistics and inventory operations from origin to destination. Drive more efficiency by tracking and optimizing movements across supply chain</p>	<p>Tm Task Management</p> <p>Track all tasks across teams in one place. Configurable, company-specific business process workflows and sign off on shipments with confidence</p>

Warehouse and yard management

<p>Cs Commodity Site Manager</p> <p>Track all goods movement in bulk commodity handling sites, including stock, cargo receipt, shipment, billing, along with logistical transactions</p>	<p>Ss Smart Scales</p> <p>Optimize resources in the receival process by automating the weighing function at site weighbridges or truck scales</p>	<p>3a 3D Anti Collision</p> <p>Maximize the use of your equipment, enable large machines to work closer together while preventing collisions</p>	<p>Sa Site Automation Control</p> <p>Improve product integrity, uniformity, and production efficiency with real-time visibility into all operations using a comprehensive reporting suite</p>
<p>3d 3D Stockpile Manager</p> <p>Real-time 3D volumetric model of stockpiles for flexible material control, quality analysis, and prediction.</p>			

Add-on supply chain applications

<p>T Traceability</p> <p>Trace crop origins from farm to fork with blockchain. Gain transparency into crop movement and track crops as they move through the value chain</p>	<p>Ia Inventory Analytics</p> <p>Improve forward planning with visibility into projected inventory, plant utilization and evaluating inventory by region or by product to make better decisions</p>	<p>Lo Logistics Operations Analysis</p> <p>Track goods movements and monitor accrual adjustments for changes in routes. Analyse key performance indicators by logistics company, route, origin, destination</p>	<p>Pc Purchase Analysis</p> <p>Analyze variance between planned and actual Raw Material Margin (RMM). Compare RMM for different suppliers, qualities and take advantage of changing market conditions</p>
<p>Sd Supply Demand Analysis</p> <p>Align inventory with market and customer demands, for improved strategic planning and analysis. Predict future demand based on historical and market trends</p>	<p>Po Plant Outage Analysis</p> <p>Track and analyze impact of plant outages on volume and value. Consolidate position across business units, view impact and take corrective action in near real time</p>	<p>Vo Vessel Opportunity</p> <p>Optimize trading strategies, lower transport cost and boost operational efficiency by tracking vessels and planning better voyages</p>	<p>Pp Plan Performance</p> <p>Operate at maximum efficiency in the storage or movement of physical bulk commodities – providing the most throughput for the least amount of downtime and cost</p>
<p>Qa Quality Arbitrage Analysis</p> <p>Improve your chances of arbitrage with complete visibility into stock quality. Calculate additional premium for stocks qualifying for higher grades to get better arbitrage</p>			

60+
Countries

100+
Customers

50+
Applications



The power of one.



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To learn about how Eka can add value to your operations.

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About Eka Software Solutions

Eka Software Solutions is a global leader in providing digital solutions for Trading & Risk, Supply Chain Management and Financial Services driven by Cloud, Blockchain, Machine Learning and Analytics. The company's best-of-breed solutions serve the entire trading value chain across agriculture, energy, metals and mining and manufacturing markets.

Eka's Cloud Platform provides advanced analytics, one source of data and an automation engine, providing maximum flexibility and investment protection as business needs and market requirements change. Eka is committed to ensuring its 100+ clients can work from anywhere and collaborate across ecosystems within a secure and trusted environment.

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