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Supply Chain Connect provides supply chain and purchasing professionals with essential news, information and analysis about the technology and business trends that impact the global supply chain industry.



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With the advancement of data analytics, businesses can now leverage vast amounts of data to make more accurate and reliable forecasts.



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Using Data-Driven Analytics to Drive Supply Chain Decisions

The role of analytics continues to grow as supply chain operators turn to technology for help shoring up their networks, addressing disruptions and planning for the future.

Supply chain analytics isn't a new concept, but it is one that's playing an increasingly important role in streamlining and driving risk out of these critical global networks. By definition, supply chain analytics is the process of collecting, analyzing and interpreting data from various points in a company's supply chain to gain insights and improve decision-making.

By examining data related to inventory levels, warehouse management, supplier performance, transportation routes, customer demand and other key factors, analytics can both assess and positively impact the process of getting products from raw material to the end customer.

5 Different Types of Supply Chain Analytics

Not all supply chain analytics are the same, and [Shopify](#) breaks the various types down into these five buckets:

- **Predictive analytics.** A “weather report” that forecasts future scenarios for the supply chain. It uses statistical models and machine learning algorithms to identify patterns from past data to project upcoming outcomes. “This type of analytics helps you anticipate and prepare for potential challenges or opportunities,” Shopify explains, “staying ahead of consumer trends in the market and the demands of your current and prospective customers.”
- **Prescriptive analytics.** Goes beyond identifying what might happen to suggest how to make desired outcomes occur. This process aims to improve supply chain performance for your business by using algorithms and simulation models to suggest specific interventions. As Shopify explains it, “By transforming data insights into actual suggestions, you get detailed recommendations to improve the performance of your supply chain.”

- **Descriptive analytics.** Reveals what has already occurred in your supply chain, providing historical information about your supply chain performance and giving you visibility into your supply chain KPIs. “This type of analytic approach quantifies past events and performance metrics,” Shopify says.
- **Diagnostic analytics.** Identifies why specific events or trends occurred in your supply chain. These insights typically come from data mining and correlations, uncovering root causes behind performance variations. By connecting outcomes with their driving factors (“X happened because of Y”), Shopify points out, “diagnostic analytics gives you an understanding of what’s occurring across your entire supply chain.”
- **Cognitive analytics.** Uses artificial intelligence (AI) and machine learning to process vast amounts of data (both structured and unstructured), uncovering complex patterns in supply chain operations. These trends might be otherwise difficult for you and your team to spot. This process looks a bit like “thinking,” where your tooling learns from new data, continuously improving its insights and recommendations.

Organizations in search of some or all of these analytics capabilities are helping to drive a multibillion-dollar global market for analytics software. According to [OpenPR](#), the global supply chain analytics market is projected to reach \$35.9 billion by 2033—up from \$10.8 billion last year—and will post a compound annual growth rate of 17.8% over that forecast period.

“The global supply chain analytics market is witnessing unprecedented growth,” the company says. “With the proliferation of big data and advanced analytical tools, companies are now able to gain real-time insights into every aspect of their operations. These insights allow for improved decision-making, more efficient resource allocation, and the ability to anticipate disruptions before they impact operations.”

The Future Looks Bright

As the supply chain analytics market continues to grow at a robust pace, OpenPR says it will be driven by factors like increasing digitalization and the need for resilient supply chains. Government initiatives aimed at boosting digital transformation across industries are also expected to have a positive impact on the market.

“As countries invest in digital infrastructure, companies will be better positioned to leverage advanced analytics to opti-

mize their supply chains,” it says. “Furthermore, the integration of blockchain technology for improved traceability and transparency is anticipated to further enhance the capabilities of supply chain analytics solutions.”

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Bright Future for Components Market

NewPower Worldwide’s CEO, Carleton Dufoe, explains the electronic components industry is on the cusp of significant growth over the next several years.

While 2024 had posed some challenges, we expect demand to steadily rise in 2025, driven by key sectors such as computing, artificial intelligence, aerospace/defense, cloud services and automotive.

A primary driver is demand for high-capacity products, including DDR5 memory, AI systems and advanced server components. Rapid advancements in computing and AI are fueling demand and we foresee it continuing throughout the next decade. These sectors require innovative solutions that keep pace with evolving technologies.



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Digital Transformation is Top of Mind for Procurement Managers in 2025

A new report reveals just how important advanced options like artificial intelligence, business analytics and the Internet of Things are for today’s procurement leaders.

Chief procurement officers (CPOs) are playing an increasingly bigger role in high-level decision-making within their companies, and this higher-profile status is driving procurement teams to seek out digital solutions to some of their most pressing challenges.

In *The 2025 Annual Procurement CPO Report*, ProcureCon unveils some of the top digital transformation trends and issues that are claiming CPO mindshare right now and delves into some of the main issues that are keeping them up at night. Based on input from supply chain, procurement and risk management professionals, the survey revealed a “shift” in the strategic importance of CPOs within organizations.

For example, the majority of respondents (53%) say CPOs are playing a more substantial role in high-level decision-making, up from 46% who said that last year. The survey also highlights the growing emphasis on technology and innovation in procurement, with 66% of respondents identifying the use of artificial intelligence (AI) in procurement processes and decision-making as a “high priority” for CPOs in the coming year.

Key Report Findings

Some of the other findings from the ProcureCon survey include:

- 53% of respondents say procurement becomes involved in the purchasing process once purchasing requirements and specification are defined.
- 66% say leveraging AI in procurement processes will be a high priority for the CPO in the next 12 months, while 55% say the same about improving speed-to-value and return on investment (ROI).
- 64% say their maverick spend key performance indicators (KPIs) have improved over the past 12 months, while 49% say the same about their purchase price variance KPIs.
- 82% have identified or prioritized potential use cases of AI for their procurement teams.

- 90% have considered or are already using AI agents to optimize procurement operations.
- 60% say their CPOs will be one of multiple leaders heading technology initiatives over the next 12 months.
- And, 65% are just “somewhat confident” in their ability to effectively leverage AI over the next 12 months.
- 55% of respondents want to improve speed-to-value and ROI for their organizations.
- Delivering on ESG (environmental, social and governance) and sustainability goals was considered a high priority by 48% of respondents and a moderate priority by 46%.
- Nearly all (93%) of survey respondents view reducing operational costs as either “high” or “moderate” priority.
- The survey also revealed that supplier quality rating (26%), supplier risk score (23%), and procurement ROI (22%) were the performance indicators that worsened the most over the past 12 months.

Tasked with New Priorities

The modern procurement department faces numerous challenges in its quest to further digitize and automate its operations. It’s being tasked with new priorities relating to technology implementation, yet still has to oversee traditional procurement responsibilities (e.g., sourcing, supplier negotiation and identifying cost-saving opportunities). This balancing act isn’t always easy to achieve, but technology can be an effective enabler.

According to the survey, leveraging AI in procurement processes and decision-making is a core priority for 66% of respondents for the next 12 months. “This strong focus on AI adoption reflects the growing recognition of its potential to transform procurement operations,” ProcureCon says in its report. “CPOs are likely seeing AI as a key enabler for improving efficiency, enhancing decision-making capabilities, and gaining a competitive edge in an increasingly complex supply chain environment.”

Other key priorities that are top of mind for CPOs and supply chain/risk managers:

Identifying Useful Technologies

These and other survey results highlight the ongoing challenges in supplier management and performance measurement. “CPOs may need to reassess their supplier evaluation and risk management strategies, as well as how they measure and communicate procurement’s value to the organization,” says ProcureCon, which expects technology selection and implementation to continue being important topics moving forward.

“Not only does the [procurement] function play a role in identifying useful technologies,” it adds, “but it can also provide insights into how key technologies can transform the business, as well as their procurement processes.”

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Exploring Digital Evolution in Container Shipping

Join Thomas Bagge, CEO of DCSA, and Thomas Morris, Head Researcher at FINN Partners, in this exclusive webinar as they share expert insights from the State of the Industry 2024 report, exploring how digitalisation is transforming container shipping and answering your questions in a live Q&A session.



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Taking the Pulse of Digital Supply Chain Transformation

Here are the primary drivers and roadblocks that companies say are dictating their supply chain transformation initiatives this year.

As an authority in benchmarking, best practices, process and performance improvement, and knowledge management, American Productivity & Quality Center (APQC) periodically takes the pulse of the world's supply chain operators. Last month, APQC turned its focus to digital supply chain transformation with its latest [2024 Quick Poll Report](#).

Based on input from 300+ respondents, the APQC report provides a cross-industry snapshot of the current state of digital transformation in supply chain, including its elements, key drivers, top barriers and the teams that are leading the transformation process. The group defines digital transformation as the “strategic integration of multiple technologies” in relation to the supply chain.

According to the survey, nearly two-thirds of respondents say their organizations are in the advanced stages of adopting digital transformation in their supply chains, including the achievement of full implementation with continuous

improvement or in the process of a full-scale adoption. Only a small minority (16%) is still in the planning stage or conducting pilot projects, APQC reports.

The Top 10 Drivers

Over half of the survey respondents (55%) consider data management to be a critical element of their organizations’ supply chain digital transformation efforts. Other common elements of digital transformation include generative and algorithmic artificial intelligence (GenAI and AI), advanced analytics, robotic process automation (RPA), enterprise resource planning (ERP) systems and the Internet of Things (IoT).

According to the APQC reports, the top drivers of supply chain digital transformation right now include the desire to improve quality (e.g., minimize errors); improve sales and operations planning; and enhance supplier/customer service and communications. Here’s how the numbers break down:

- 33% of companies want to improve quality
- 30% are interested in improving sales and operations planning/integrated business planning
- 29% have their sights set on improving supplier/customer service and communications
- And, 28% want to be able to provide better real-time access to data

Other core concerns right now include cybersecurity/IT risk reduction, the need for connected systems to support better decision-making and the need to reduce costs. Other companies are focused on improving supply chain cycle times, information sharing and collaboration.

In contrast, the survey respondents say they’re less focused on pursuing digital transformation in their supply chains in order to enable remote work, improve accessibility on devices and update their existing legacy systems.

Barriers to Digital Transformation

APQC says the common barriers to digital transformation also include integration challenges, security and governance concerns, technology capability limitations, and the lack of skills to use new systems and processes.

- 38% say cost of implementation keeps them from investing in new digital supply chain technology solutions
- 42% blame integration challenges
- 38% say security and governance concerns keep them from making this move
- 38% say technology capability limitations are their biggest concern
- And 37% say lack of skills needed to be able to use new systems and processes is a primary roadblock

The group also identified some consensus among the respondents, with nearly half (48%) perceiving the “cost of implementation” to be a top barrier to the success of their organization’s supply chain’s digital transformation. In this high interest rate and inflationary economic environment, such concerns could be keeping companies on the supply chain digital transformation sidelines this year.

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Big Data Analytics and Demand Forecasting for Supply Chain Management

By providing actionable insights from vast, diverse data sets, big data analytics has revolutionized how businesses approach forecasting, inventory management and decision-making.

Big data analytics has become a game-changer for supply chain management in today’s fast-paced and highly interconnected global economy. It plays a critical role in addressing challenges like demand volatility and component shortages in industries with complex and global supply chains, such as the electronics sector. By harnessing the power of massive data sets, organizations gain deeper visibility into their supply chains, make more informed decisions and drive long-term sustainability in an increasingly digital world.



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Supply Chain Connect provides supply chain and purchasing professionals with essential news, information and analysis about the technology and business trends that impact the global supply chain industry.



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Securing the Supply Chain: TIA's SCS 9001 Cyber and Supply Chain Security Standard

As supply chain security becomes a growing concern, the Telecommunications Industry Association has developed a second release of the SCS 9001 Cyber and Supply Chain Security Standard to help organizations address vulnerabilities across their supply chains. Hear from TIA's Mike Regan on the latest updates to the standard and how it can be adopted to enhance security practices.



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Digital Transformation in the Electronics Supply Chain

Through the integration of advanced technologies and automation, data-driven decision making is taking precedence for distributors in order to optimize inventory management and forecasting. According to James Fu of Win Source, in 2024 and beyond, distribution will be more intelligent, more sustainable and continue to play a key role in the electronics industry.



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7 Qualities to Look for in a Logistics Provider

Are you shopping for a new logistics provider in 2025? Be sure to ask potential partners if they can deliver on these seven must-haves.



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Data Analytics in Supply Chain Management

Gil Orozco, Vice President of Product Management at Jameco Electronics, discusses how data analytics can bring forth the necessary efficiencies and supply chain visibility for customers as they traverse the changing landscape of the electronics industry.

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5 Ways Analytics are Transforming Supply Chains

Here are some of the main ways analytics are helping supply chain and procurement managers tackle risk, streamline operations and improve customer service levels.

The connection between analytics and supply chain is undeniable in today's complex global marketplace, where the former generates an incredible volume of data on a minute-by-minute basis. Analytics steps in by transforming that raw data into actionable information that organizations can use for good decision-making.

These realities aren't lost on companies, which continue to invest in a wide array of supply chain analytics solutions. In fact, [market.us](#) says the software sector is on track to reach \$44.4 billion in total revenues by 2033, up from just \$7.8 billion in 2023. This growth represents a compound annual growth rate (CAGR) of 19.0% during the forecast period and "effectively underscores the critical role that analytics will play in shaping the future of supply chain management," the research firm says.

What is Supply Chain Analytics?

By definition, supply chain analytics is the use of data analysis tools and techniques to improve the operational efficiency and effectiveness of supply chains. This includes the analysis of everything from inventory levels and supplier performance to logistics and distribution patterns.

The software's predominant strength is optimizing supply chain operations by providing comprehensive analytics that aid in decision-making. Cloud-based deployment models dominated the field in 2023, with a 67.1% share. According to [market.us](#), this preference "underscores the trend towards scalable and flexible analytical solutions that cloud computing offers."

The retail and e-commerce sector led industry vertical applications of supply chain analytics in 2023, with a 21.8% share. "The demand for efficient logistics is particularly high in this sector," the research firm adds, "driven by the need for fast, reliable delivery services, inventory management, and customer satisfaction in a highly competitive market."

5 Transformational Effects of Analytics

Here are five different ways organizations are using analytics to enhance and optimize their supply chain operations:

1. Minimized costs, enhanced customer satisfaction and streamlined operations. Manufacturing, retail and e-commerce companies are leveraging these analytics to predict product demand, manage inventory more

effectively, and respond proactively to market changes. "The growing complexities of global supply chains and the need for resilience in the face of disruptions such as during global events like trade disputes further bolstered the demand for supply chain analytics," [market.us](#) states.

2. Real-time gathering and analysis of data. Big data is becoming essential in predicting demand, optimizing routes and enhancing inventory management. "Predictive analytics helps supply chains anticipate risks and reduce costs," [market.us](#) says. "Also, AI is revolutionizing supply chains with intelligent automation in areas like inventory management, demand forecasting, and logistics optimization."

3. Improved risk and management. In a recent Gartner survey, 76% of supply chain executives indicated that compared to three years ago, their companies are facing more frequent disruptions in their supply chain. "With such a large majority of companies experiencing significant volatility, understanding and benchmarking the practices that align with analytics-driven improvement are critical to enabling supply chain analytics leaders to prepare," Gartner's Noha Tohamy writes in "[Key Characteristics of Supply Chain Analytics High Performers](#)."

4. Better supplier performance management. Analytics also plays a crucial role in managing supplier performance, allowing businesses to assess and enhance their supplier relationships effectively. "By tracking metrics such as delivery times, quality, and compliance," [market.us](#) points out, "organizations can identify underperforming suppliers and make data-driven decisions or potential replacements."

5. Predict potential disruptions and craft effective contingency plans. Reactive supply chain and risk management don't work anymore. Taking a proactive approach to risk management—supported by accurate, reliable analytics—not only minimizes the impact of disruptions when they occur, but it also enhances the overall resilience of the supply chain. "By maintaining a robust data governance framework and leveraging new technologies for greater visibility," [market.us](#) says, "companies can better prepare for and quickly respond to supply chain uncertainties."

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Transform or Fall Behind - Why Leading Companies in the Electronics Industry Are Investing in Digital Supply Chain Solutions

Digitalization, through the implementation of technologies such as APIs, modern EDI platforms, middleware solutions and PDM systems, offers increased efficiency, improved data accuracy and enhanced customer satisfaction.

The Problem: Inefficient Data Management in the Electronics Industry

The electronics industry is complex and evolving rapidly, making efficient and accurate data management crucial. Many companies still rely on outdated methods for handling critical product and business information, such as emails, spreadsheets, and even paper documents. These traditional methods result in numerous issues, such as data inaccuracies, delays, and increased operational costs. These inefficiencies pose significant challenges in an industry where timely access to accurate data can make or break a business.



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Digital Transformation in Supply Chain Management: Leveraging Technology for Efficiency and Resilience

Leveraging advanced technologies can optimize operations, improve decision-making and fortify supply chains against disruptions.

Supply chain management (SCM) orchestrates the flow of goods, services and information from production to consumption. It hinges on precise coordination across logistics, operations and supplier relations to meet consumer demands efficiently. Amid global economic shifts and fierce market competition, businesses face mounting pressure to adopt digital solutions.

This article delves into how leveraging advanced technologies can optimize operations, improve decision-making and fortify supply chains against disruptions.

The Current State of Supply Chain Management

Challenges Faced by Traditional Supply Chains

Traditional supply chains often struggle with inefficiencies stemming from manual processes, making them vulnerable to disruptions like the COVID-19 pandemic. These chains often lack visibility and traceability, leading to issues such as:

- Inability to track products in real-time
- Difficulty in assessing the impact of disruptions on supply availability
- Challenges in verifying the authenticity and origin of products across borders
- Lack of transparency in supplier operations and compliance

Impact of Global Trends on SCM

Modern supply chains are under pressure to adapt to rapidly changing consumer expectations, which include demands for quicker, more transparent services. The rise of e-commerce has particularly accelerated these expectations, pushing companies towards real-time supply chain visibility and faster delivery services.

Simultaneously, there's a significant shift towards sustainability, driven by both consumer preference and regulatory pressures. This shift requires supply chains to be more flexible and scalable to adjust to variable market conditions and integrate sustainable practices without compromising efficiency.

Key Technologies Driving Digital Transformation in SCM

Internet of Things

The Internet of Things (IoT) is fundamentally transforming logistics by enabling real-time data collection. IoT devices, such as sensors and RFID tags, are crucial for enhancing operational visibility. They allow for the continuous monitoring of goods and assets throughout the supply chain, providing critical data that helps businesses optimize their logistics and reduce downtime.

Artificial Intelligence and Machine Learning

Artificial Intelligence (AI) and Machine Learning (ML) utilize vast amounts of data, including market trends and historical performance, to predict future demand more accurately. AI systems can also help manage inventory by adjusting stock levels based on predicted demand changes, thus preventing overstocking or stockouts. Additionally, AI enhances risk management by identifying potential disruptions and suggesting mitigative actions.

Blockchain Technology

By providing a decentralized and immutable ledger, blockchain allows for secure, traceable transactions between parties. This capability is particularly valuable in ensuring the authenticity of products and streamlining operations such as procurement and compliance. Blockchain is instrumental in managing the provenance of goods, from raw materials to finished products, thereby enhancing traceability and reducing fraud.

Robotics and Automation

Automated systems like drones and robots are not only used for picking and packing but also for transporting goods within and between warehouses. This automation extends to delivery vehicles, where drones, for example, are used for last-mile deliveries, significantly speeding up the process and reducing human labor costs. These technologies are integral to reducing errors and increasing efficiency in the supply chain.

Benefits of Digital Transformation in Supply Chain Management

Enhanced Efficiency and Productivity

Automation of traditional processes reduces manual interventions, expedites workflows and cuts down operational costs. For instance, real-time data provided by online tools improves decision-making and minimizes waste by ensuring accurate inventory and demand forecasts.

Improved Resilience and Risk Management

Digital tools enhance the resilience of supply chains by enabling companies to respond swiftly to disruptions. Technologies like predictive analytics help in foreseeing potential issues and formulating effective mitigation strategies. This proactive approach is crucial in maintaining continuity and minimizing impacts during unforeseen disruptions.

Increased Transparency and Customer Satisfaction

By implementing online solutions, companies achieve greater transparency across their supply chain operations. This visibility not only boosts operational efficiency but also significantly enhances customer satisfaction. Customers benefit from real-time updates and are able to track their orders more effectively, which builds trust and enhances service reliability.

Streamlined Supplier and Partner Collaboration

Digital platforms facilitate improved communication and collaboration among all stakeholders in the supply chain. These technologies enable more synchronized operations and sharing of critical data in real-time, which helps in reducing delays and improving the overall responsiveness of the supply chain.

Implementing Digital Transformation in SCM

Strategic Planning and Investment

Successful digital transformation in supply chain management starts with robust strategic planning and investment. Key considerations for technology integration include:

- Assessing Technology Fit: Ensure the selected technologies align with specific SCM needs and goals.
- Cost-Benefit Analysis: Evaluate the initial costs against long-term operational savings and efficiency gains.
- Scalability: Choose solutions that can grow with the business and handle increasing data or operational demands.
- Stakeholder Engagement: Involve all relevant stakeholders from the beginning to ensure alignment and buy-in.
- Pilot Testing: Implement technology in phases starting with pilot projects to mitigate risks.

Overcoming Implementation Challenges

Implementing digital strategies in SCM can encounter several challenges, such as workforce adaptation and data security. Effective strategies to address these include:

- **Training and Support:** Provide comprehensive training and ongoing support to help staff adapt to new technologies.
- **Data Protection Measures:** Implement robust cybersecurity measures to protect sensitive supply chain data.
- **Change Management:** Establish clear communication and leadership support to facilitate change.

Measuring Success and Adjusting Strategies

To gauge the effectiveness of digital transformation initiatives in SCM, specific metrics are crucial. These metrics help in assessing performance and guiding necessary adjustments:

- **Operational Efficiency:** Monitor improvements in process times and reductions in operational costs.
- **Supply Chain Agility:** Evaluate how quickly the supply chain can respond to market changes and demands.
- **Customer Satisfaction:** Track improvements in customer service and satisfaction levels.

The Future of SCM with Digital Transformation

Emerging Trends and Technologies

Quantum computing is set to revolutionize supply chain management by enhancing data processing capabilities, which will significantly improve decision-making processes and operational efficiencies. As this technology matures, its integration into SCM systems could lead to unprecedented levels of optimization and problem-solving capabilities.

Sustainability and Ethical Considerations

Technologies like blockchain and IoT are paving the way for more sustainable practices by enhancing transparency and enabling more efficient resource usage. For instance, online tools facilitate more precise tracking and sustainability reporting, helping companies to manage their environmental impact effectively. This integration supports not only compliance with evolving regulatory requirements but also aligns with consumer expectations for responsible business practices.

Wrapping Up

Digital transformation offers a pathway to efficiency and resilience in supply chain management. As the old adage goes, "Adapt or perish." Businesses must embrace these technologies now to stay ahead in an ever-changing landscape. It's time to act and future-proof your supply chain for success.



Semiconductor Market Update

Coming off a banner year in 2024, the semiconductor industry outlook is a mixed bag as new market dynamics, political issues, trade wars and regulatory requirements emerge.

After experiencing shortages and supply chain disruptions both during and after the pandemic, the semiconductor industry may be taking a breather. Some component categories are still experiencing disruption while others are in ample supply. With the timeline from concept to completion on new fabrication plants extending out several years (or more), some factories that were still in the planning stages when the market shifted are now being reconsidered.

Overall the news is fairly upbeat. Global semiconductor sales increased by nearly 18% in January compared to the same period in 2024, according to the [Semiconductor Industry Association](#). In an early-March report, the SIA says that while sales hit the highest-ever total for the month of January, worldwide chip sales decreased 1.7% in January (compared to the prior month).

Regionally, SIA says year-over-year sales (January 2025 vs. January 2024) increased in the Americas (50.7%), Asia Pacific/All Other (9.0%), China (6.5%), and Japan (5.7%), but were down in Europe (–6.4%). Month-to-month sales in January

increased in Asia Pacific/All Other (1.6%), but were down in Europe (–1.3%), China (–2.0%), Japan (–3.1%), and the Americas (–3.5%).

“Following its highest-ever annual sales total in 2024, the global semiconductor market maintained momentum in January, hitting its highest-ever monthly sales total for the month of January, despite a slight decline from the month of December,” said SIA’s John Neuffer, in a [press release](#). “Year-to-year sales increased by more than 17% for the ninth consecutive month, driven by a 50.7% year-to-year sales increase in the Americas.”

A Period of Transition

Some companies are already making moves to head off a potential slowdown in demand for semiconductors. Earlier this month Intel announced that it was postponing its \$28 billion chip manufacturing project until 2030 in order to “align production with market demand while navigating potential renegotiations,” [Technology Magazine](#) reports, noting that the decision comes “during a period of transition and uncertainty in the global semiconductor market.”

The factory in New Albany, Ohio will now begin operations between 2030 and 2031, extending the timeline by at least five years from the original plans. “This delay is announced amid Intel also cutting capital expenses following its strategic pivot to become a contract chip manufacturer for other companies, which has impacted its financial stability,” the publication reports.

A second Intel fab in Ohio is projected to be completed in 2031 and begin operations in 2032, with construction continuing “at a slower pace over the next few years.” According to [Technology Magazine](#), the semiconductor industry as a whole is now “experiencing a complex phase of realignment causing chip manufacturers worldwide to grapple with excess inventory, reduced consumer spending on electronics and cautious enterprise investments in technology infrastructure.”

Demand Tails Off

In another signal of a shift in semiconductor market dynamics, China’s Semiconductor Manufacturing International Corp. (SMIC) says the market for its primary product—mature-node chips—could be oversupplied by the second half of this year (mature-node chips are generally those produced using older, established manufacturing processes).

“SMIC focuses on established chips for consumer electronics and home appliances which enjoyed a demand surge during stay-at-home policies of the COVID-19 pandemic, but suffered as consumer replacement demand tailed off with people returning to offices,” [The Economic Times](#) reports.

US export controls restricting access to advanced chipmaking technology have seen Chinese chip firms including SMIC focusing on the mature-node segment, gaining market share from established players such as Taiwan’s Powerchip, the publication adds. And, SMIC has ramped up investment to expand production capacity and strengthen China’s domestic semiconductor capability.

What’s Coming Next?

Looking ahead, [ING](#) expects robust demand for semiconductors to continue through the rest of the year—but says not all segments will be buoyed by the rising tide.

“In 2025, we expect 9.5% growth in the global semiconductor market, driven by robust demand for data center services, including AI,” the global financial institution predicts. “However, growth in other, more mature segments is expected to be stagnant. Our forecast is lower than the projections of

the World Semiconductor Trade Statistics and others, but slightly exceeds ASML’s (a dominant player in the semiconductor lithography market) long-term growth expectations for the sector.”

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Building Agile Supply Chains through Advanced-Data Synchronization

In the fast-paced and ever-evolving electronics industry, timely access to accurate data is critical for survival. It informs decision-making and supports agile, adaptable supply chains. In an automated society where data feeds progress, advanced synchronization bridges the gap between real-time insights and actionable outcomes, enabling companies to anticipate challenges and respond proactively.

Supply chain disruption is no longer an anomaly—it’s the new normal. Thus, technologies that support data synchronization are indispensable for building resilience and ensuring continuity in an increasingly interconnected global marketplace.



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Supply Chain Shortages and Their Impact on Manufacturing

Businesses can mitigate disruption through the integration of technology to improve supply chain visibility, inventory management and build resilience.

The global pandemic highlighted the importance of the supply chain and its effects on manufacturing worldwide. Rapid shifts in demand, coupled with economic instability and interruptions in transportation, led to extreme difficulties in accessing even basic goods. Supply chain shortages increase costs and production times for manufacturers. With this information, businesses can determine how to minimize the effects of supply chain disruption.

What Causes Supply Chain Disruption?

A supply chain interruption only takes a failure in a single point of the process between the collection of raw materials to the delivery of a finished product to a customer. As such, supply chain shortages can come from a variety of causes, including:

- **Economic Instability:** A regional economic change can affect demand, as well as the supplier's ability to produce materials, components or finished products.
- **Changes to Trade Regulations:** Changing political environments can affect the cost or efficiency of trade, which can decrease the viability of certain supply chains.
- **Labor Shortages:** Low availability of properly trained staff can put a halt on assembly and other processes

needed for manufacturing or increase costs to find acceptable workers.

- **Increasing Raw Material Costs:** High demand and low supply can cause raw material expenses to increase dramatically.
- **Logistics Issues:** Transportation of materials or goods can cause delays due to closed ports, strikes or other interruptions.
- **Shifts in Demand:** Fluctuations in demand due to consumer behaviors can force manufacturers to source more material or try to keep systems running during an economic downturn.
- **Dependence on Foreign Suppliers:** Global markets rely on steady supplies worldwide, which increases the likelihood of interruption due to these factors.

Even the most robust supply chain can encounter disruption due to these causes.

How Do Shortages Affect Manufacturing?

Not being able to get raw materials or products for manufacturing, or failing to deliver finished products on time, has several effects for manufacturers:

- **Longer Production Timelines:** Waiting for a delayed delivery increases the time between a customer ordering an item and receiving the finished product, which can increase costs for the manufacturer.
- **Increasing Expenses:** Manufacturers dealing with low material supply or labor shortages will likely have to pay more for each item produced, often leading to higher costs for the consumer.
- **Negative Customer Satisfaction Impacts:** Customers who must wait months for a product, or choose an alternative due to unavailability, may look for other manufacturers who can provide a more reliable option.

Shortages can put a strain on businesses already working with lean margins.

How Can Manufacturers Minimize Supply Chain Shortages?

Supply chain disruption creates obstacles for companies, but adjusting the supply chain can make significant improvements. By integrating technology to improve supply chain visibility, adjusting inventory management and creating a resilient supply chain, businesses can avoid many of these problems.

Improve Supply Chain Visibility

Manufacturers who embrace technology can find faster solutions to supply chain issues or even predict them in advance. AI can evaluate a business' supply chain and identify

weaknesses, allowing time to build solutions that handle anticipated changes to supply or demand. Companies can automatically manage inventory, order more supplies and arrange for crane maintenance on a schedule.

Adjust Inventory Management Strategies

Inventory management should be efficient so that businesses do not store more than they need but do not constantly run out of materials and components. A robust, electronic inventory management system allows companies to immediately assess what they need and compare this data to production timelines and forecasts. Automated ordering makes a seamless process to maintain inventory.

Build a Resilient Supply Chain

Dependence on a limited supply chain increases the likelihood of disruption, highlighting the importance of diversification. Businesses should build relationships with multiple suppliers, especially those located near the warehouse or manufacturing plant. Fewer stops along the line often translate into shorter production timelines and lower costs.

Supply chain disruption happens on occasion, and stronger companies will have a way to address the common causes. By evaluating individual risk and finding ways to diversify the supply chain, businesses can pave the way for effective competition despite supply chain issues.

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Wired to Procure: What Engineers Wish Procurement Teams Knew

Find success through engineering and procurement collaboration.

In this video, technology correspondent Ana Berry discusses how engineering and procurement collaboration is essential for business success.



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Using Data Analytics to Improve Supply Chain Forecasting

With the advancement of data analytics, businesses can now leverage vast amounts of data to make more accurate and reliable forecasts.

Supply chain forecasting is a critical element in maintaining an efficient and responsive supply chain. Accurate forecasts allow companies to manage inventory levels, optimize production schedules, reduce costs and improve customer satisfaction. With the advancement of data analytics, businesses can now leverage vast amounts of data to make more accurate and reliable forecasts. In this article we will explore how data analytics can improve supply chain forecasting, the benefits it offers and the challenges to overcome.

The Importance of Accurate Supply Chain Forecasting

Supply chain forecasting is about predicting future demand for products and services to optimize various supply chain processes. “An accurate forecast can significantly impact a business’s bottom line, helping to avoid overstocking, stockouts and costly rush orders,” explains Jeff Turner, a journalist at [ConfidentWriters](#) and Bibliography Writing. Traditional forecasting methods often rely on historical sales data and manual analysis, which can lead to inaccuracies and missed opportunities.

Data analytics, on the other hand, brings a new level of sophistication to forecasting. By analyzing large datasets and identifying patterns, businesses can create more reliable forecasts, even in complex and rapidly changing environments. This capability is especially important in today’s global supply chains, where demand fluctuations, transportation disruptions and other uncertainties are common.

Types of Data Analytics in Supply Chain Forecasting

Data analytics encompasses a range of techniques and tools that can be applied to supply chain forecasting. Here are some of the key types of data analytics used in this context:

Descriptive Analytics

Descriptive analytics involves analyzing historical data to understand past trends and patterns. This type of analytics is foundational for supply chain forecasting, as it provides insights into how demand has evolved over time. By examining historical sales data, inventory levels and production outputs, businesses can identify trends that inform future forecasts.

Predictive Analytics

Predictive analytics uses statistical models and machine learning algorithms to predict future outcomes. In supply chain forecasting, predictive analytics can forecast demand, identify potential disruptions, and estimate lead times. Techniques like regression analysis, time series analysis and neural networks are commonly used to create predictive models.

Prescriptive Analytics

Prescriptive analytics goes a step further by providing recommendations on how to optimize supply chain operations based on predictive insights. This type of analytics can help businesses make data-driven decisions about inventory levels, production schedules and distribution strategies. It can also suggest optimal responses to unexpected events, such as supply chain disruptions.

Benefits of Using Data Analytics in Supply Chain Forecasting

Implementing data analytics in supply chain forecasting offers several key benefits:

Improved Accuracy and Precision

Data analytics allows businesses to use advanced algorithms and statistical models to create more accurate forecasts. These models can process large volumes of data, identify subtle trends and account for multiple factors, resulting in more precise forecasts. Improved accuracy leads to better inventory management, reduced waste and lower carrying costs.

Enhanced Flexibility and Adaptability

Supply chains are subject to constant change, and data analytics enables businesses to adapt quickly to new information. By continuously analyzing data and updating forecasts, companies can respond to market shifts, customer preferences and external disruptions. This flexibility helps businesses stay competitive in a rapidly evolving market.

Reduced Costs and Increased Efficiency

According to Brian Webb, Senior Writer at [BeeStudent](#) and [Paper-Research](#), accurate forecasting allows businesses to optimize inventory levels, reducing excess stock and minimizing the risk of stockouts. This, in turn, reduces storage costs, decreases waste and streamlines production processes. Additionally, data analytics can help identify inefficiencies in the supply chain, leading to cost-saving opportunities.

Better Collaboration and Communication

Data analytics can facilitate collaboration among different stakeholders in the supply chain. By sharing forecasting insights and data-driven recommendations, businesses can

align their operations and improve communication. This collaborative approach enhances transparency and reduces the risk of misunderstandings or misaligned goals.

Challenges and Considerations

While data analytics offers significant benefits for supply chain forecasting, there are also challenges and considerations to keep in mind:

Data Quality and Integrity

The accuracy of data analytics relies on the quality and integrity of the underlying data. Inconsistent, incomplete or inaccurate data can lead to faulty forecasts and misguided decisions. Businesses must invest in data governance and data quality assurance to ensure reliable forecasts.

Technology Infrastructure and Expertise

Implementing data analytics requires a robust technology infrastructure and skilled personnel. Businesses need to invest in the right tools, software and hardware to support data analysis. Additionally, hiring or training personnel with expertise in data analytics and machine learning is essential.

Privacy and Security

Data analytics involves processing large volumes of sensitive data, which raises privacy and security concerns. Businesses must implement strong security measures to protect data from unauthorized access and breaches. Compliance with data protection regulations is also crucial.

Change Management

Adopting data analytics can require significant changes to existing processes and workflows. Change management is essential to ensure a smooth transition and gain buy-in from stakeholders. Proper training and communication can help employees embrace the new approach to supply chain forecasting.

Data analytics has revolutionized supply chain forecasting by providing businesses with the tools and insights needed to make accurate predictions and informed decisions. By leveraging descriptive, predictive and prescriptive analytics, companies can improve the accuracy of their forecasts, enhance flexibility, reduce costs and foster better collaboration within the supply chain. However, businesses must address challenges related to data quality, technology infrastructure, privacy and change management to fully realize the benefits of data analytics in supply chain forecasting. With the right approach, data analytics can be a powerful driver of success in the ever-changing world of supply chain management.

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How Analytics Can Improve the Efficiency of Supply Chain Management

Supply chain management is a communications-intensive process in all aspects of an organization, from procuring raw materials to selling finished products. To optimize supply chain management efficiency, companies should use analytics.

Analytics provide insights into how enterprises utilize resources and the impact of resource utilization on organizational effectiveness. This understanding can be used to better plan for and manage future projects.

The freight brokerage industry is one of the most intricate and fundamental segments of the transportation industry. Freight brokers need to leverage analytics tools and data analysis to streamline their supply chain management.

Let's look at how analytics can improve supply chain management efficiency for freight brokerage and trucking industries by demonstrating how analytical solutions increase profitability by managing cost-to-serve risks.

The Growth of Data Analytics in Supply Chain Management

Supply chain management is an ever-evolving process within business environments. The overall coordination of all supply chain activities leads to the delivery of products and services from vendors to consumers. Supply chain management includes procurement, production and inventory management for marketing, sales, delivery and after-sales services.

Firms can optimize their operations and increase their bottom line by making data-driven decisions. Data availability and the decline in the price of computer power have led to the development of analytics.

Transportation companies are a vital component of supply chain management. The freight brokerage industry plays

a massive role in supply chain management by providing solutions for transportation needs, including trucking, ocean shipping and air cargo solutions.

Freight matching links transportation companies with freight brokers who supply goods and services to clients in a way that optimizes supply chain efficiency.

Freight brokerage and trucking firms need to identify opportunities to improve their business operations by leveraging analytical solutions, such as data-driven decision-making, in the form of enterprise resource planning (ERP) software and analytics.

Analytics will be even more critical in the future as businesses work to become more adaptable and responsive to the constantly changing customer needs.

How Data Analytics is Modifying the Supply Chain Environment

Analytics provides operational insights to help businesses make the most of their freight brokers and trucking services. By leveraging analytical solutions, companies can remain competitive by better managing risk and working to reduce costs.

In the past, it took a lot of work to comprehensively understand the supply chain since several corporate sectors dispersed the data. However, organizations can now gather and store data from every link in the supply chain, owing to data warehouses and data lakes.

Additionally, most supply chain management in the past relied on experience and intuition. With powerful data analytics technologies, however, supply chains are now governed by data-driven choices.

Supply chain managers can make data-driven decisions that boost productivity and efficiency. Managers may now make sense of **big data** sets and find hidden patterns and trends thanks to various powerful data analytics technologies.

The desire for a greater rate of return through optimization has led to innovations in technology infrastructure, with the expansion of data analytics being a catalyst for this growth.

How Supply Chain Analytics Improves Efficiency

Companies use data analytics to monitor their supply chains in real-time, spot problems as they develop and swiftly adjust their plans. Analytics is also beneficial in many aspects of a trucking company's operations, such as driver recruitment, routing and scheduling, productivity measures, logistics, efficiency measurements and more.

Let's see how supply chain analytics improves efficiency:

Optimized Production Schedules

Analytics allows freight transportation companies to create optimized production plans, improving efficiency. For instance, with the help of ETL (extract, transform and load) tools and predictive analytics solutions, businesses can streamline the management of their supply chains and enable data sharing across all business units in a company.

Predictive data analytics help optimize production plans by supplying information to aid decision-making regarding production runs. It can offer reliable information regarding client demand, production capacity, inventory levels and other aspects affecting production schedules.

Enhanced Cargo Shipments Efficiency

Analytics improves the efficiency of cargo shipments by helping ensure you utilize vehicles and conveyances appropriately. The advent of **ERP systems** and data analytics has helped freight transportation companies increase the performance of their supply chains.

Logistics organizations can use analytics to track and forecast shipments, optimize routes and enhance customer service for land freight operations. You can trace shipments and foresee delays with them. The logistics company can utilize data analytics to identify the reason for a shipment delay and take action to prevent it.

You can also use analytics to analyze how your freight network is currently used and find potential areas for improvement. Improved demand projections help you plan your transportation more confidently.

Inter-functional Collaboration

Inter-functionality is one of the most significant trends in the supply chain industry, which refers to the convergence of functions. Today, supply chain management requires companies to work closely with departments beyond their business operations. Data analytics allows supply chain managers to work across several different organizational boundaries.

Other Advantages of Data Analytics in Supply Chain Management

Here are extra advantages of data analytics in supply chain management:

Lowered Inventory Costs

Analytics can help in the **management of inventory costs**. By leveraging analytical solutions, freight transportation companies can lower their inventory costs. They can do this by analyzing how to optimize their capital expenditures and reduce over or understocking.

Businesses enhance their performance by identifying inefficiencies in their inventory management procedures with data analytics. Data analytics assist companies in gaining a competitive advantage and improving their bottom line by lowering inventory costs and streamlining operations.

Lowered Risks

A supply chain's performance can be affected by various hazards, such as interruptions in the flow of supplies, modifications in client demand and problems with suppliers. Organizations can recognize these risks beforehand and take action to reduce them by employing data analytics.

Wrapping Up

Many organizations rely heavily on freight. It is challenging to keep track of all the shipments and handle them efficiently. By controlling all of their shipments in one location, digital freight forwarding platforms integrated with analytics enable businesses to streamline their supply chain.

Future expectations are that the supply chain will be even more data-driven and analytics-oriented, with organizations able to administer and manage their extended supply chains easily.

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Companies Focused on Digital Transformation Education for Manufacturing & Automation

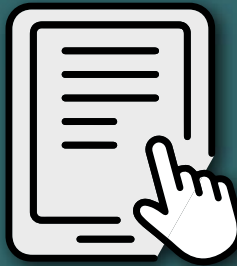
These companies offer **training, certifications, and consulting** tailored to **smart manufacturing, Industry 4.0, industrial automation, AI-driven production, and IoT integration**.

	<p>Siemens (Siemens Digital Enterprise Academy & Mindsphere Learning Hub)</p> <ul style="list-style-type: none">• Focus Areas: Industry 4.0, Industrial IoT (IIoT), Automation, Digital Twins• Programs: Siemens Digital Enterprise Academy, MindSphere Training (IIoT Platform), TIA Portal Training• Notable Offerings: Hands-on industrial automation training, AI-driven manufacturing solutions <p>LEARN MORE ></p>
	<p>Rockwell Automation (Rockwell Training Services & Plex Smart Manufacturing Academy)</p> <ul style="list-style-type: none">• Focus Areas: Smart Manufacturing, Industrial Automation, IIoT, AI in Manufacturing• Programs: Plex Smart Manufacturing Academy, FactoryTalk Software Training, Control Systems Certifications• Notable Offerings: Digital transformation courses for PLCs, SCADA, robotics, and cloud-based manufacturing <p>LEARN MORE ></p>
	<p>General Electric (GE Digital Industrial Training & Predix Academy)</p> <ul style="list-style-type: none">• Focus Areas: AI in Manufacturing, Predictive Maintenance, Digital Twins• Programs: GE Digital Academy, Predix Industrial IIoT Certification• Notable Offerings: AI-driven industrial analytics and IIoT training for smart factories <p>LEARN MORE ></p>
	<p>ABB (ABB University – Digitalization & Automation Training)</p> <ul style="list-style-type: none">• Focus Areas: Robotics, AI in Industrial Automation, Smart Factories• Programs: ABB University (Robotics, AI, Digital Twin Training), ABB Ability™ Training• Notable Offerings: Hands-on robotic automation and digital twin simulations for manufacturing <p>LEARN MORE ></p>
	<p>FANUC (FANUC Academy – Industrial Robotics & Smart Automation)</p> <ul style="list-style-type: none">• Focus Areas: AI-powered Robotics, CNC Automation, Smart Manufacturing• Programs: FANUC Academy Robotics Training, AI-Based Predictive Maintenance Courses• Notable Offerings: Specialized AI-driven robotic automation courses for manufacturers <p>LEARN MORE ></p>
	<p>Bosch Rexroth (Industry 4.0 & Smart Factory Training)</p> <ul style="list-style-type: none">• Focus Areas: AI in Manufacturing, Connected Industry, Digital Supply Chains• Programs: Bosch Rexroth Industry 4.0 Training, Connected Hydraulics & Automation Academy• Notable Offerings: Hands-on training in digital supply chains and automated factory solutions <p>LEARN MORE ></p>
	<p>Schneider Electric (EcoStruxure Digital Transformation Training)</p> <ul style="list-style-type: none">• Focus Areas: Smart Manufacturing, IIoT, AI-driven Energy Management• Programs: Schneider Electric Exchange, Smart Factory & Sustainability Training• Notable Offerings: AI-driven automation training focused on energy efficiency and digital twins <p>LEARN MORE ></p>
	<p>MIT Professional Education (Smart Manufacturing & Industry 4.0 Courses)</p> <ul style="list-style-type: none">• Focus Areas: AI in Manufacturing, Digital Twins, Advanced Robotics• Programs: Smart Manufacturing: Moving from Static to Dynamic Manufacturing, Digital Transformation in Industry 4.0• Notable Offerings: Executive-level digital transformation strategies for manufacturing <p>LEARN MORE ></p>
	<p>Coursera (Industry 4.0 & Digital Transformation in Manufacturing Courses)</p> <ul style="list-style-type: none">• Focus Areas: AI-Driven Smart Factories, Automation, Digital Supply Chain• Programs: Industry 4.0 Specialization by TUM, Digital Manufacturing by University at Buffalo• Notable Offerings: Online learning with industrial case studies and AI-driven factory automation <p>LEARN MORE ></p>
	<p>Udacity (AI & Smart Manufacturing Nanodegrees)</p> <ul style="list-style-type: none">• Focus Areas: AI in Manufacturing, IIoT, Robotics, Automation• Programs: AI for Robotics, Digital Transformation in Manufacturing, Industrial IIoT Specialization• Notable Offerings: Industry-recognized certification programs with real-world manufacturing projects <p>LEARN MORE ></p>

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