

Identify and Manage Your Supply Chain Risks

Action can help your organization implement strategies to manage everyday and exceptional supply chain risks. With steady and reliable performance from Action Data Platform, you can identify, assess, and mitigate risks to reduce vulnerabilities and ensure continuity of your supply chain operations. You'll have greater confidence that your company's supply chain is agile, resilient, and efficient.

Supply chains are increasingly complex and face more risk as they stretch across the globe. From demand volatility to manufacturing products to timely delivery, the end-to-end supply chain is subject to constant risk of disruption. Multiple factors can cause disruption such as geopolitical conflicts, natural disasters, labor shortages, material shortages, transportation backups, increasing fuel prices, pandemics, and more.

Why Action for Supply Chain Risk Analytics

Customers trust Action because we provide more than just a platform. We help organizations make confident, data-driven decisions to better manage their supply chain risks. Using the Action Data Platform, companies can easily connect, manage, and analyze their data to spot potential problems faster and take proactive actions to prevent supply chain disruption.

Reducing Supply Chain Risks with Action

Predictive analytics is essential to help organizations identify, assess, and mitigate the risks in their fast changing and highly connected supply chains. Below are just a few examples of how to use the Action platform to reduce common supply chain risks.



Business Benefits

Action can help you transform your supply chain to reduce risks with the following advantages:

- Maintain the right levels of inventory
- Obtain the most cost-effective and efficient logistics
- Scale production up or down as needed
- Reduce manufacturing downtime and quality assurance issues
- Optimize route planning
- Decrease transportation breakdowns and accidents
- Understand the financial viability of customers and suppliers

Demand Volatility

Volatility happens when there are variations in customer demand for products in a rapidly changing and unpredictable market. Many factors contribute to demand volatility, including changing customer preferences and behavior, competitive business maneuvers, upstream supply fluctuations, and your own product and price adjustments.

This is why demand forecasting using predictive analytics is one of the most critical aspects of supply chain management. The benefits of anticipating customer needs and buying behavior are tremendous. With this knowledge, manufacturers can better ensure that they have the right levels of inventory, obtain the most cost-effective and efficient logistics, and determine the best price to charge for their product.

Capacity Constraints at Warehouses and Production Facilities

With better order volume predictions, manufacturers can better identify and avoid production and warehouse capacity constraints, ranging from lack of space to labor shortages to insufficient equipment and other roadblocks, that delay manufacturing and distribution. Manufacturers can react with faster production scheduling adjustments to avoid stockouts and reduce overtime costs for labor. Further, they can redesign spaces for larger-scale production, balance loads across distributed locations and purchase additional equipment if needed.

Equipment and Product Issues

Downtime in manufacturing ranks as one of the top supply chain operational inefficiencies. The average manufacturer deals with 800 hours of downtime per year – or more than 15 hours per week. Downtime is costly. An automotive manufacturer, for example, can lose up to \$22,000 per minute of downtime. As an increasing number of manufacturers incorporate more Internet of Things (IoT) devices on their plant floors, they have many opportunities to analyze this data using predictive analytics. This gives manufacturers the chance to identify and resolve potential problems with production-line equipment before they happen and spot bottlenecks and quality assurance issues faster.

Late Deliveries by Logistics Providers

Using predictive analytics, it's possible to determine optimal shipping channels and routes to meet on-time deliveries while minimizing costs. Predictive analytics can inform route planning with information on traffic conditions, shipping container bottlenecks, adverse weather conditions and more to determine the fastest routes. Plus, smart sensors can identify issues with vehicles and drivers to help prevent breakdowns and accidents.

Financial Distress of Suppliers and Customers

The business failure of important customers or suppliers can present great supply chain risks. Predictive analytics helps understand the state of businesses to determine if a company is at risk for financial collapse.

IT Benefits

The Actian Data Platform delivers advanced capabilities, including enterprise-proven data integration, data management and data analytics services in a trusted and flexible platform. The Actian platform makes predictive analytics easy with the ability to:

- Integrate and analyze supply chain data from disparate sources and in different formats
- Perform rapid machine learning model training and retraining on fresh data
- Scale to several hundred terabytes of data to analyze large data sets instead of just using data samples or subsets of data
- Use your favorite machine learning tools and libraries, including DataFlow, KNIME, DataRobot, Jupyter, H2O.ai, TensorFlow, and others.

Are you ready to create a more agile, resilient, and efficient supply chain? Make data easy for your business today as you build for a more predictable future.

[Get Started with Actian >](#)

