

SOLUTION BRIEF

Alteryx for Inventory Management

Right inventory, right place, right time.

Inventory Management

Efficient inventory management has always been a vital strategy for reducing supply chain costs. However, with increasing complexity in global business environments, relying solely on traditional inventory management software may no longer suffice. Organizations today need tools capable of handling diverse datasets, evolving market dynamics, and unique business challenges.

Alteryx empowers supply chain analysts, inventory managers, and data-driven decision-makers to progress beyond basic data formatting and into advanced analytics. By leveraging features including generative AI and CDW integration within the Alteryx's platform, businesses can surface valuable insights faster, optimize operations, and adapt to change — all while excelling in transparency and governance.

Alteryx solves common challenges in inventory management

- **Inaccurate or inconsistent demand forecasting**
- **Limited visibility into inventory levels**
- **Inefficient stock replenishment strategies**
- **Disruptions in supply chain operations**

2/3 of retailers still follow inventory management practices whose roots date back to the pre-internet shopping era.

What You Need

- 1. Inventory Tracking Data**
Stock levels, Location and movement of goods, Status updates (e.g., on order, in transit, or in stock)
- 2. Sales and Order Data:** Sales orders and returns, Customer demand patterns
- 3. Supplier and Purchasing Data:** Vendor performance metrics, Lead times and order quantities

What Alteryx Provides

- Integrates data for comprehensive inventory visibility
- Optimizes replenishment by analyzing trends
- Enhances forecasting with predictive analytics
- Uses simulations to anticipate disruptions
- Cloud Data Warehouse (CDW) integration

4 Ways Alteryx Can Augment Your Inventory Planning

1. Data Prepping and Architecture:

Most companies are working with enormous volumes of data, which in many cases are located in multiple systems and different formats.

Without clean and unified data, even advanced inventory management software won't perform optimally. Alteryx enables businesses to automate data preparation, merging sources like spreadsheets, CRM software, or text files — transforming weeks of manual work into minutes. The data structure you build in Alteryx can be automated and ingested into most inventory management software. Data can be displayed by SKU, BOM, or assortment category.

In addition, many planners will want to augment the data. For example, adding spatial coordinates to visualize inventory locations and calculate drive times can help you gain insights on how to best fulfill customer delivery expectations.

2. Accurate Inventory Forecasting:

Predicting inventory levels is pivotal to business success, yet over-reliance on simplistic historical data models undermines accuracy. With Alteryx's generative AI and advanced forecasting solutions, companies can align inventory with real-time market signals and customer sentiment. Read the [Demand Planning Solution Brief](#).

Generative AI Revolution

With generative AI features, identifying inefficiencies becomes simpler.

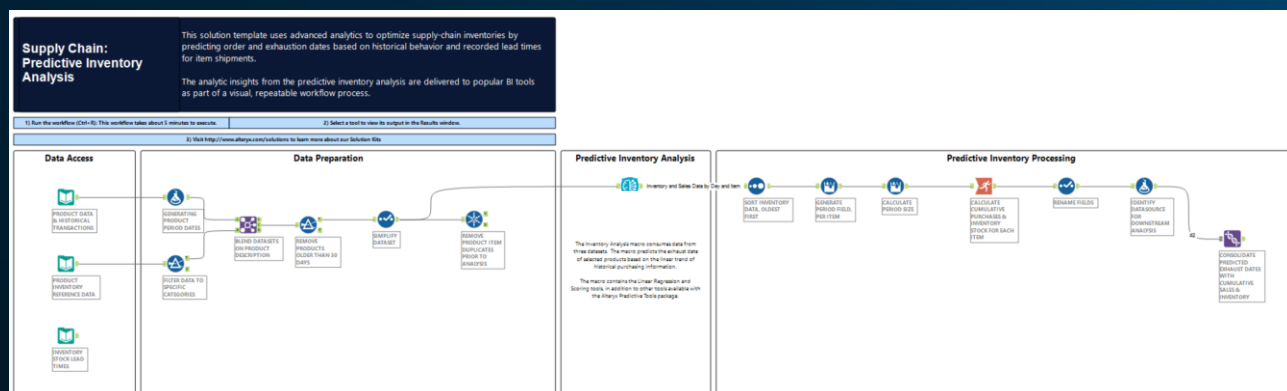
AI can automatically generate "magic reports," offering personalized summaries of your inventory and enabling immediate communication across your team

Inventory Management Customer Success Stories with Alteryx

- SaskTel built 5-year inventory forecasts with Alteryx that now run in 3 min and saved \$250K, by avoiding costly rush orders
- Armor Express replaced Excel with Alteryx and built predictive models that blended SKU data with orders and manufacturing output. They cut \$400K of inventory from day one.
- Amway needed to optimize safety stock for 3,000 items at 325 locations, covering \$45MM in inventory.

MillerKnoll used Alteryx to track Work-In-Progress material flow and saved \$300,000 in annualized Cost of Goods Sold and 4,000 hours through automation

Predict Inventory Levels



4 Ways Alteryx Can Augment Your Inventory Planning

3. ‘Just in Time” Safety Stock

Most companies are re-evaluating safety for the post-Covid era. Traditionally, outdated safety stock methods relied on fixed calculations or simple time-based estimates. For example, many third-party inventory optimization software has fixed business rules that calculate safety stock. These fixed rules don't account for your unique business, your level of risk, or the profile of your customers and can often lead to excess inventory, missed opportunities, or high carrying costs. With Alteryx, planners can choose and compare how you want to calculate your safety stock to see which model is more accurate. Tools like the OpenAI Connector integrate directly into Alteryx Designer, enabling rapid experimentation.

4. Inventory Visibility and Movability:

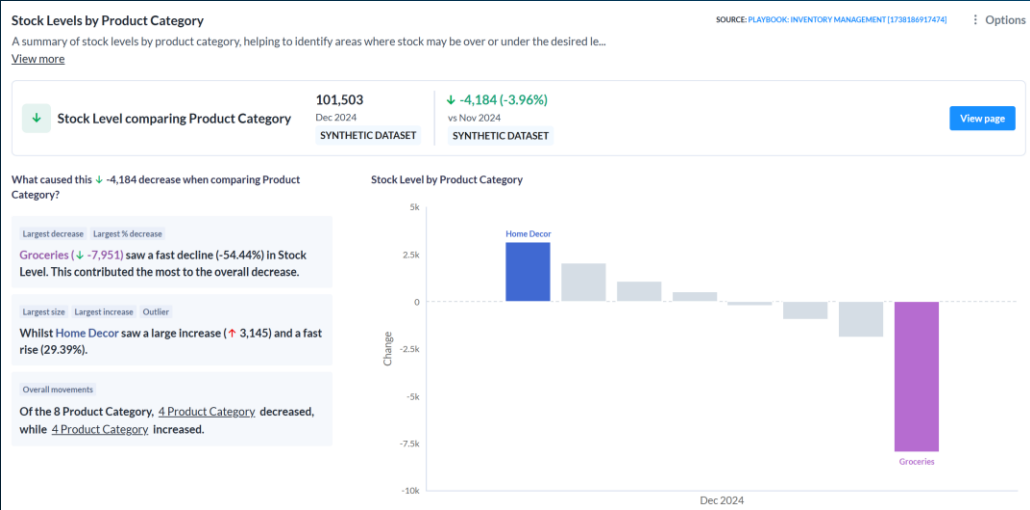
Visibility is vital to agile inventory practices. Understanding precisely where products are stored and their movement times leads to better stock rotation and fulfillment efficiency by allowing a planner and buyer to consider not only the cost, but also the time to move the product. Key benefits include:

- **Optimized Stock Movement:** Redistribute surplus stock intelligently. For example, slow-moving products in one region can be re-routed to high-performing locations, supported by accurate ETA models derived from Alteryx data workflows.
- **Drive Time Insights:** Built-in location intelligence with drive time and geospatial analysis enables smarter transportation strategies. By minimizing transit inefficiencies, businesses save costs while meeting customer expectations.
- **SKU-Level Tracking:** Use Alteryx to track inventory at the SKU level across warehouses, calculate days remaining until depletion, or identify poor-performing locations.

Three Safety Stock Considerations

- 1. Outdated Fixed Models:**
Companies set a fixed level of safety stock for their goods. This number may be based on the judgment of the operations manager or on assumed stock level calculations. It's often set on an aggregated level and not on individual items. While simple, they risk costly stock-outs or excessive holding costs.
- 2. Time-Based Models:** Time based models incorporate time but do not account for slow-moving goods or lead time variances. This can result in a large amount of unnecessary capital tied up in safety stock, which becomes excess stock sitting in warehouses. In other words, your safety stock becomes your overstock.
- 3. Modern Statistical Models:**
By employing probability-driven simulations and predictive analytics, businesses achieve more precise stock settings tailored to each SKU.

Automate
Interactive
Reporting on
Stock Levels



Alteryx in Your Supply Chain Stack for Data-Driven Inventory Management



For a complete list of system requirements and supported data sources, visit <https://www.alteryx.com/products/alteryx-platform>

About Alteryx

Alteryx offers an end-to-end, analytics platform which empowers people to break data barriers, deliver insights, and experience the thrill of getting to the answer faster. Business analysts and data scientists alike can discover, share and prep data, perform analysis, and deploy and manage analytic models. Enterprises all over the world rely on Alteryx to deliver actionable insights daily.

Alteryx, Inc.
3347 Michelson Drive Suite 400
Irvine, CA 92612
+1 888 836 4274
www.alteryx.com

Alteryx is a registered trademark of Alteryx, Inc.