# Replenishment for Grocery

Luminate Experience

Retail

Luminate Platform

Logistics

Planning

## Accelerate your ROI with replenishment

In a market where shoppers have many choices, retailers can't afford to miss any opportunities. Consumers expect your very best, their way, right away. Inventory out-of-stocks create lost sales now while also impacting future sales. And quality-conscious grocery shoppers are looking for the freshest foods, right now, at competitive prices. Maintaining the right inventory level, while also minimizing waste, is a constant struggle.

Artificial intelligence (AI) technology solves these problems using predictive analytics, automating store replenishment for grocers and reducing out-of-stock rates by as much as 80 percent. Blue Yonder's replenishment capabilities create accurate, granular level demand forecasts, optimizing product availability and inventory levels while reducing waste and unnecessary manual interventions.

Because customer shopping preferences can vary by store, demand for the same product can differ from one location to another. Replenishment calculates demand and optimizes order decisions on the finest levels, including store, product and day.

## Why go at it alone? Rely on Blue Yonder, the industry leader

With Blue Yonder at the forefront of creating leading-edge technologies, we always consider the end-user experience during development to ensure the highest levels of satisfaction, flexibility and scalability, and our replenishment capabilities are no different. Improve your ability to reduce stockouts and increase inventory turns by aligning supply with demand throughout the entire network.

## Real results

Out-of-stock reduction up to

# 80%

Increased product availability up to

# 10x

Fewer manual interventions up to

# 50x

Now, retailers can plan and control the entire replenishment picture: determining the correct intervals and quantities to order, planning when and where to store inventory, visualizing storage capacity constraints, correcting short-term inventory shortages and optimally replenishing inventory at all levels, all the way down to the store shelf. Gain a competitive advantage in a fast-evolving marketplace with our cognitive, real-time, connected platform.

Plus, enterprises can protect their investment and increase business agility by having Blue Yonder experts manage, monitor and maintain solutions. With Blue Yonder's SaaS services, organizations can reduce implementation time and risk while enabling you to quickly and easily deploy new capabilities to keep pace with your changing business needs. Running the platform on the cloud and with upgrades included in your service, you will benefit from a set of capabilities that are optimized for your specific business requirements to help ensure that you achieve and sustain a long-term return on your investment.

## Replenishment capabilities within easy reach

Blue Yonder's replenishment capabilities can optimize decisions based on multiple aspects including reducing waste due to low demand and minimizing out-of-stocks and lost revenue due to high demand. Each calculated prediction quantifies risk with a probability distribution which is used to optimize and automate decisions based on your organization's strategic goals.

Blue Yonder machine learning models consider multiple types of data to calculate replenishment recommendations.  Internal sources like sales data and promotions and external data like events, weather and holidays improve and enhance the demand forecast. Instead of point-in-time estimates, data-driven forecasts are made per product, day, store through probability density functions.  The result is more accurate, probabilistic demand predictions with a horizon of 21 calendar days, giving you more accurate results over traditional forecasting methods, while also powering and further enhancing future predictions.

Replenishment predictions also consider highly granular aspects of store-level demand, including how demand in specific stores varies versus the average of all stores, or how demand on a particular day of the week differs from the weekly average. These predictions utilize Blue Yonder's proven algorithms, honed over time with continuous retailer feedback, to provide highly accurate forecasts.

The recommended store order quantities can be executed without manual oversight or intervention, while manual exception management can be handled online. Because recommended order quantities are available via API and can be retrieved automatically by any external system, you can benefit from a high degree of automation while minimizing cost, manual effort and turnaround time, freeing staff for more value-added tasks.

Luminate Planning

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