Data-driven Statistical Forecasting

Good forecasting is an art and a science

The "art" is based on the expert judgement of planners like you and the wider business you represent. It comes from how you apply your knowledge of your market, your customers, and your competitors.

In parallel, there is a valuable place for "science." Powerful results can be achieved by employing historical data and other datasets. A statistical forecast, derived from underlying trends and seasonality, provides a solid baseline, allowing you and your organization to focus on the incremental and tangible events that create an impact.

A powerful analytical solution, enabling organizations to turn their data into a forecast, seamlessly

Statistical Forecasting is a powerful forecasting application that delivers a wide range of industry-standard algorithms that let you take control of your demand plans and supply chain. Powered by the Anaplan platform, Statistical Forecasting harnesses powerful analytics to deliver real-time calculations that ensure your organization can be proactive and responsive. The application is fully compliant with S&OP and IBP frameworks and flexible enough to support local process variations.
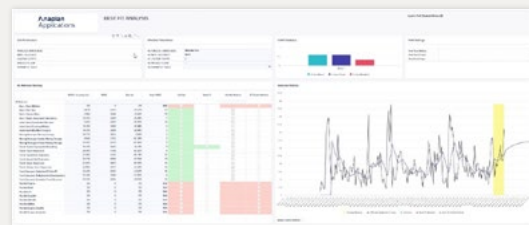
OUTCOMES

- Immediate forecast baseline
- Identification of key discussion points
- Rapid iteration of plan updates
- Reduced planning cycle times and effort
- Increased process automation

BENEFITS

40% ↑ Planning Productivity

25% ↑ Forecast Accuracy

Forecast accuracy testing and best-fit selection

Key features

Real-time processing

Statistical Forecasting processes your data in real time, without the need to wait for calculation routines. The results are readily available for downstream consumption and use.

Controllable functionality

Statistical Forecasting includes wide parameters so that experienced planners like you have complete control over how it operates. These parameters allow you to tune it to the dynamics of your specific business.

Transparent results

Statistical Forecasting eliminates the mystery associated with forecasting algorithms. How forecasts are calculated is clear to you so you can have total confidence in the results.
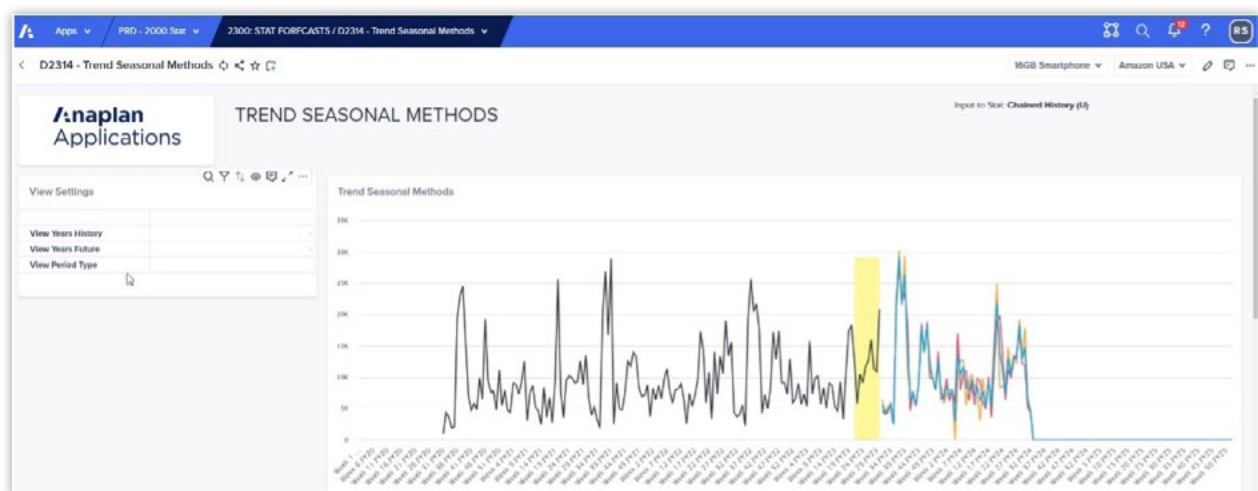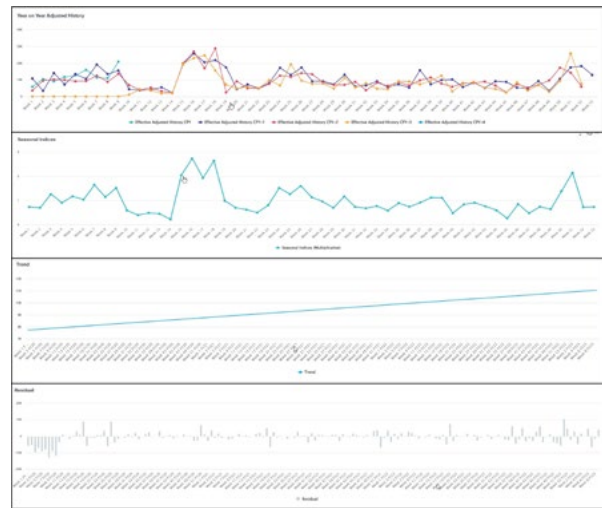
Intelligent outputs

Statistical Forecasting helps you make the right choices. It tunes the parameters to provide optimal inputs, and it tests the results to identify the most accurate forecast. It does the heavy lifting for you.

Powered by Anaplan

Statistical Forecasting is built on the Anaplan platform, a world-leading, cloud-based planning and modeling solution. It benefits from Anaplan enterprise scalability, in-memory processing, performance, and security.

Seasonality analysis

27 industry standard algorithms

Process Capability

1. Control & Analysis

Parameter Optimization

- Automated optimization of parameters
- Manual override of system recommendations

Algorithm testing

- Best-fit analysis and selection
- Wide set of parameters to control best-fit selection
- Manual override of best fit

Multilevel forecasting

- Independent forecasting at all levels of the hierarchy
- Ability to disaggregate higher level to lower

Analysis

- Trend and seasonal analysis
- Demand sensing

2. Statistical forecasting algorithms

Basic

- Naive method
- Prior year
- Historic mean
- Simple exponential smoothing

Intermittent

- Cumulative non-zero
- Croston's method
- Modified Croston's

Moving averages

- Moving average
- Double moving average
- Annual moving average

Trend

- Double-exponential smoothing
- Linear regression
- Logarithmic regression
- Exponential regression
- Power regression

Trend seasonal

- Calculated percentage over PY
- Holt-Winters
- Multiplicative decomposition
- Ensemble trend seasonal

PlanIQ methods

- Prophet, MVLR, ETS, DeepAR+, CNN-QR, ARIMA, Anaplan AutoML, Amazon Ensemble