Kinaxis®

KNOW SOONER. ACT FASTER.

Planning.AI

The next chapter of advanced analytics **STARTS NOW**.

The benefits of heuristics, optimization and machine learning, all at once

Supply chain pressures are mounting. Disruptions are on the rise. The rate of change is accelerating. And vast amounts of data are overwhelming decision-makers. Supply chain planners and leaders are trapped, struggling to find the balance between making an accurate decision, or making a fast one. All while the success or failure of their business is on the line.

But it doesn't have to be this way.

You can have it all. Accuracy AND speed for the ultimate in supply chain agility.

Planning.AI is the next big leap in the use of advanced analytics for supply chain planning. Part of the industry-leading Kinaxis® RapidResponse® platform, Planning.AI is a one-of-a-kind fusion of heuristics, optimization and machine learning. It automatically detects and combines the best analytical approaches to solve even your most complex supply chain problems.

No data science or deep analytics experience required.
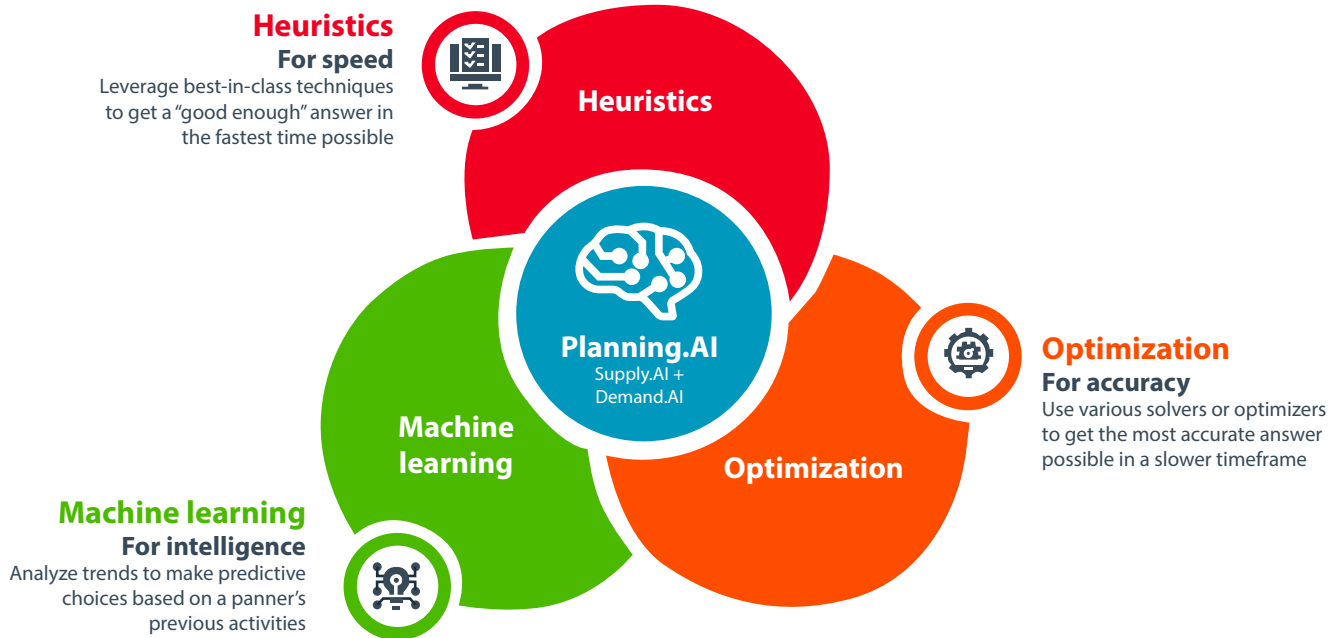
Unique advanced analytics

The speed of heuristics. The accuracy of optimization. The intelligence of machine learning. All working concurrently to solve a single problem in a way no other vendor can. So you can make smarter, faster, more accurate decisions across your entire end-to-end network.

- **Solve complex problems**: Broaden the types of problems you can solve by fusing multiple advanced analytical approaches.

- **Respond at the speed of business**: Accelerate optimization by using heuristics to warm-start the process, making accurate decision-making faster

- **Turn analytics into value**: Empower your team and maximize the potential of your supply chain, all while increasing customer satisfaction and decreasing costs

- **Improved decision making**: Capture insights thanks to a built-in machine learning to drive more accurate results faster, every time you solve a similar problem

- **Overcome talent shortage**: Detect and combine the right analytical approaches automatically, without the need for a team of data scientists or deep analytical expertise

"We expect Planning.AI to help us better support our customers by quickly and accurately determining the best combination of products that could be built using projected on hand inventory. This will help reduce customer's excess and obsolete materials and significantly improve our planning flexibility in RapidResponse."

Mary Simpkins
SCM Process & Applications Consultant
Celestica

Heuristics
For speed
Leverage best-in-class techniques to get a "good enough" answer in the fastest time possible

Optimization
For accuracy
Use various solvers or optimizers to get the most accurate answer possible in a slower timeframe

Machine learning
For intelligence
Analyze trends to make predictive choices based on a panner's previous activities

Heuristics

Planning.AI
Supply.AI +
Demand.AI

Machine learning

Optimization

Planning.AI process

When applied to today's complex supply planning challenges, Planning.AI first applies heuristics to a problem, then runs those results through an optimizer or solver. That significantly narrows the scope of what the optimizer must solve for, dramatically reducing the time it takes to get an answer while still preserving the required accuracy. For demand planning, Planning.AI leverages machine learning to gain insights from vast amounts of internal and external data then uses additional analytical approaches as appropriate to improve sensing and forecasting across short and long-term horizons.

Supply Planning • Capacity Planning (CRP) •
Production Planning • Transportation Planning •
Production Scheduling • Recycling Planning •

• Inventory Management
• Distribution Requirements Planning (DRP)
➕ Inventory Optimization

Supply.AI ➕
Self-Healing Supply Chain™ ➕

Supply **Inventory**

• Supplier Collaboration
➕ Command &
Control Center

Supply Planning •
Inventory Management •
Control Tower •
Operational Planning •
Demand Planning •

Planning One **Control Tower**

Demand Planning •
Order Fulfillment •
Advanced Statistical Forecasting •

Demand **S&OP**

• S&OP Foundation
• Financial Planning
• Live Lens Insights

Demand.AI ➕

Cognitive Network Graph | Intuitive visualization | Augmented intelligence | Concurrent planning | Planning.AI / advanced analytics | Cognitive automation | Real-time integration

Amplify analytics across your supply chain

Combine our unique concurrent planning technique with the full power of Planning.AI to mature your planning processes and drive next-level business results across your end-to-end supply chain.

Demand.AI

Take the guesswork out of demand forecasting.

Empower planners with highly accurate demand forecasts across all horizons using machine-learning based forecasting and sensing, while leveraging analytics, insights, and exception-based workflows to prioritize high value-add work. Incorporate the true drivers of your demand with both internal and external signals. Improve the starting point for your demand and supply plans with more accurate forecasts. Use confidence scores to focus consensus forecasting effort across the organization.

Supply.AI

Drive costs out of your supply chain.

Balance trade-offs incorporating cost, revenue, on-time delivery, capacity and more using new modeling approaches and analytical solvers. Harness existing master data. Leverage flexible business objectives. Plan at any level of granularity. With Supply.AI you can solve a wide variety of business problems, including could-be-built to maximize margin by determining what products to build and how given available supplies and uncommitted capacity, and common blend, which lets you make the best use of available APIs and select the optimal processing techniques to maximize total demand satisfied.

Visit www.Planning.AI or contact us today at info@kinaxis.com to find out how Kinaxis RapidResponse and Planing.AI can help you reimagine your planning reality.

www.kinaxis.com