

# TRANSPORTATION MODELING

## Simulate. Then go.

Global supply chains are in constant flux. An optimally configured transportation solution today isn't necessarily the optimal solution tomorrow. To stay ahead, transportation professionals need a solution that can "think" strategically, as well as execute optimally, to ensure the entire network is always operating at the lowest cost and highest service levels.

With Manhattan Transportation Modeling, you can:

- Find innovative savings opportunities proactively
- Make the best transportation policy decisions
- Measure the service and cost impact of various options
- Reduce costs
- Improve service levels
- Optimize the network continuously

Manhattan Transportation Modeling empowers you to challenge assumptions and test new ideas on transportation policies, while simultaneously seeing the impact on operations. Logistics professionals can run what-if scenarios, propose network configuration changes, test different routing options, and see the effect that different constraints and paths will have on operations. Our technology utilizes proprietary algorithms and scenario-planning tools that remove complexity while providing great flexibility. With sophisticated simulations that use historic and forecasted data, the solution validates and optimizes a multitude of scenarios.

Responding to volatility and implementing change becomes a task as common as tendering freight, with easily justified decisions and minimal impact to the business. Manhattan Transportation Modeling enables planners to leave the day-to-day mayhem of troubleshooting and move into the realm of strategic and tactical planning. The result is optimal execution, today and tomorrow.

### MAKE BETTER BUSINESS DECISIONS

Changes and fluctuations in customer locations, carrier and driver capacity restrictions, erratic fuel costs, hours of service changes, and shifting third-party transportation rates all impact the bottom line. Using "averages" alone for modeling falls short in projecting the effects that changing a policy has on complex transportation networks. When you start to reach network capacity, how should you align resources?

Where should you add a distribution center to get the most benefit? Manhattan Transportation Modeling provides scenario-based optimization capabilities that analyze specific supply chain and network design options.

### Features + Functions

- Create an unlimited number of scenarios for alternative network configurations and transportation policies
- Analyze your real-world, historical data and quantify the overall impact of change with the help of realistic simulations
- Compare scenarios side by side
- Adjust a range of variables so you can arrive at the best outcome
- Consider plans for opening and closing distribution centers and store locations and for disruptions, demand surges and holiday seasons while fine-tuning service policies

### PLAN TACTICALLY, EXECUTE OPTIMALLY

Manhattan Transportation Modeling enables organizations to step outside the typical, reactionary focus of execution and empowers planners to be proactive. It allows companies to search for ways to improve operations, quickly react to changes in the supply chain, make more optimal decisions, find hidden savings opportunities and implement changes that positively impact profitability.