Supply Chain Guru®
Supply Chain Design Software

Visualize, Analyze, and Optimize the End-to-End Supply Chain for Significant Improvements in Cost, Service, Sustainability and Risk
Design a Better Supply Chain

Ever Ask Yourself, ‘What If...?’ Supply Chain Guru supply chain design software enables you to understand the answers through supply chain modeling, optimization and simulation, all within a single software application. With Supply Chain Guru you can:

Visualize Your Supply Chain
Supply Chain Guru offers multiple options for finding inefficiencies in the supply chain. Utilizing your own data pulled from multiple sources, you can create living digital models of the supply chain to visualize current operations and uncover problems and areas of inefficiency or risk. You can visualize your model in different ways utilizing maps, views, graphs, and dashboards.

Analyze Alternate Strategies
Answer supply chain questions by evaluating and comparing hundreds of scenarios side-by-side. Make strategic decisions and react rapidly to planned and unplanned supply chain disruptions. Sensitivity analysis enables you to identify tipping points in the supply chain so you can determine the best strategy to implement to address the situation before an event even occurs. Optimize for different scenarios, based on assumptions around demand, costs, routing, lead times and availability. Supply Chain Guru can show not only the cost-optimal supply chain network design, but also the optimal design given variations in your assumptions.
**Optimize for Best Performance**

LLamasoft’s all-in-one design engine uses advanced algorithms to perform network, product flow-path, cost-to-serve, inventory, production, and transportation optimization; end-to-end financial, cost, and process modeling as well as greenfield and demand analysis in a single user interface and data model. Identify optimal supply chain designs based on assumptions around demand, costs, lead times and availability. Show the cost-optimal network design and the optimal design given variations in assumptions and business objectives. Rapidly run multiple models in parallel with cloud solving capability.

**Simulate to Test Potential Changes**

Supply Chain Guru is the only supply chain design application that integrates supply chain optimization and simulation into a single tool. Use simulation to test supply chain designs to make sure they will function as planned in the face of real world variables and business needs. Execute the supply chain in a digital environment to factor in variability for each individual transaction, decision and movement throughout the supply chain. Utilize simulation to test different courses of action to mitigate risk and unplanned events and evaluate contingency plans.

“The new production modeling features in Supply Chain Guru will enable us to model at the activity level. This upgrade will allow us to better represent real production activities and constraints.”

- Adriana Vazquez, Dow Chemical
Supply Chain Guru is the Most Powerful, Fastest, and Incredibly Intuitive Supply Chain Design Software

Visual tools for rapid data configuration and automatic model building

Combining the best features into one amazing new product

Extremely powerful and scalable model and scenario running with multi-solver support

Amazing new solving capabilities through detailed end-to-end financial, cost, and process modeling

Globalized data model and user experience

Intuitive and powerful dashboards

Intuitive, fun interactions with four integrated solvers: network, inventory and transportation optimization and simulation

Integrated platform data model and user experience including cloud solve
Supply Chain Design Solutions

Supply Chain Guru helps you tackle network optimization to transportation optimization and everything in-between, for a more efficient, resilient supply chain.

Design and Optimize Your Supply Chain
Supply Chain Guru offers multiple options for finding hidden inefficiencies in the supply chain. Models can contain detail, span multiple time periods, and incorporate end-to-end supply chain components including transportation modes and detailed costing mechanisms, production resource and component requirements, policy specific processes and costing, currencies and unit of measure, sourcing, inventory, service requirements, taxes and duties, and reverse logistics.

Model Different Inventory Options
LLamasoft’s inventory and capacity modeling enables analysts to create accurate models across all echelons of the supply chain, so the lowest-cost operation plan with minimum safety stock can be identified. You can also simulate operations to predict service rates, inventory levels, and site capacity constraints for any hypothetical supply chain structure.

Analyze Cost to Serve
Supply Chain Guru is adept at modeling all supply chain activities and costs incurred to fulfill customer demand. Pricing, inventory quantities, and distribution methods can be analyzed and adjusted. Gain insight into the cost-to-serve and margin-to-serve at the customer/SKU level for both existing and alternative networks.

Rationalize Mergers and Acquisitions
Model competing supply chains, evaluate their relative strengths, examine alternative structures, optimize the proposed new network, and simulate multiple scenarios in order to predict the resulting financial and operational performance of a merged or divested enterprise. Transportation lanes, inventory strategies, and greenfield facility options can be optimized for a post-merger supply chain.
Optimize Product Flow

Analyze how SKU-level products flow along transportation lanes, through distribution centers on to your customers. Supply Chain Guru can help you determine which products should be shipped via air, rail, or truck, and the appropriate distribution path to meet determined service levels while minimizing transportation costs.

Optimize to Lowest Landed Cost

Identify the lowest total landed cost for each product in the network—from suppliers through to end customers. Alternative demand scenarios can be evaluated to determine the sensitivity of different supply chain designs to demand forecast variability. These models also provide a unique product-flow optimization using our proprietary product decomposition algorithm, which enables the optimization of individual SKU flowpaths, even with thousands of individual part numbers.

Create Contingency Plans and Risk Analyses

Identify alternate sources, routes, transportation modes, or production processes that may be required during supply chain disruptions. Analysts can introduce disruptive events or supplier uncertainty into the model to get a better understanding of the robustness of their supply chain. The integrated simulation functionality identifies both physical and financial risks—or rewards—of various network scenarios by revealing the effects of irregular network capacity during short or long-term emergencies.
Model Multiple Transportation Options

Take a holistic view when modeling alternate transportation options with key variables such as cost, time, capacity, and delivery parameters. Create optimal transportation strategy based on total cost and service constraints. The solver will also help determine the fleet size and asset mix, while also identifying hub and zone skipping opportunities. Quickly understand the differences between scenarios at a detailed data level. Allows users to quickly identify what’s different between scenario and enables them to analyze the why, rather than the what.

Improve Your Strategic Sourcing

Now you can define and quantify alternatives to support your business strategy. Cost vs. time, inventory vs. service, fixed costs vs. variable costs; Supply Chain Guru’s unique technology models the entire supply chain network to determine how sourcing decisions will affect business as a whole.

“For me the most exciting part of [Supply Chain Guru] is the executive dashboards. I can’t say enough about them and I know that since I will no longer have to export into another program, this will save me at least half a day.”

– Valerie Battle, Norfolk Southern
LLamasoft Is Here to Help on Every Step of Your Design Journey

At LLamasoft, it isn’t just about our software. Our primary goal is to enable our customers to use supply chain design as a strategic capability so they can survive and thrive. We established the LLamasoft Customer Success group with the sole purpose of helping our customers make the best use of our technology, resources and best practice knowledge in supply chain design by offering:

- Technical Support
- User Training
- Coaching and Mentoring
- Design Development Plan Workshops
- Project Delivery

About LLamasoft

We love helping our customers design thriving supply chains. LLamasoft enables organizations around the world to model and optimize their supply chain operations for major improvements in cost, service, sustainability and risk mitigation. We’re driven to make supply chain optimization easier, better and faster, so you can make the world a better place. We continue to innovate with an aggressive development roadmap including new solutions for supply chain visibility, planning, and predictive analytics.

- Named to the Deloitte Fast 500 for five consecutive years
- Seventy-five percent of Fortune 500 companies have designed their supply chains with LLamasoft
- LLamasoft has supported over 2,000 supply chain design projects