

3 REASONS

MATHEMATICAL OPTIMIZATION

IS A POWERFUL TOOL
AGAINST SUPPLY
CHAIN DISRUPTION



In today's economic, political and geographical climate, supply chain disruptions are almost inevitable, but there is a powerful technology you can employ that can help overcome these disruptions:

MATHEMATICAL OPTIMIZATION EMPOWERS BUSINESSES IN THREE KEY WAYS:

1



**500%
IMPROVEMENT**
to Time-Horizon
Supply Chain
Planning Capacity

MATHEMATICAL OPTIMIZATION CREATES A MODEL OF YOUR REAL-WORLD SUPPLY CHAIN

Gurobi's optimization application combines an algorithm and a digital twin of your supply chain. When disruptions occur, Gurobi provides an end-to-end view and real-time control over your entire network. This flexibility and agility helps you determine the best actions to resolve disruptions.



**30%
INCREASE**
in supply chain
efficiency

MATHEMATICAL OPTIMIZATION LEVERAGES THE LATEST DATA

Unlike machine learning relying on historical data, Mathematical Optimization uses real-time data for prescriptive analytics across your supply chain. This enables optimal decision-making despite massive disruptions.

2



**20%
IMPROVEMENT**
in supply chain
planning accuracy

MATHEMATICAL OPTIMIZATION CONDUCTS ROBUST SCENARIO ANALYSIS

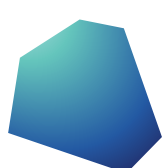
Mathematical optimization allows planners to assess risks and prepare for the future more quickly. With scenario analysis, you can explore supply shortages, demand spikes, and cost increases. By analyzing impacts on costs, service, and lead times, planners uncover risks and opportunities to build resilience.



With these 3 key strengths, Mathematical Optimization is an essential tool for supply chain leaders to not only mitigate supply chain disruption, but also drive greater supply chain efficiency and profitability. Mathematical Optimization empowers businesses to build a stronger and more resilient supply chain for the future.

Get on the fast track to success with the Gurobi Value Accelerator Program – 12 hours of expert guidance plus Gurobi Optimizer Licenses at no cost to you.

[Learn more about the Gurobi Value Accelerator](#)



Gurobi®