

NAVIGATE TRADE POLICY UNCERTAINTY WITH AI SIMULATION

Empowering resilient, accurate and high-impact decision-making in the face of uncertainty

CUT COSTS AND PROTECT MARGINS IN VOLATILE MARKETS

Navigating an ever evolving trade environment, business leaders must understand the implications of disruptions for their industries, supply lines, customers and investments. To protect margins from inflation and tariffs while continuing to deliver value, they should adopt proactive, preventive strategies across four key areas: assessing impacts, derisking supply chains, retaining customers, and planning for the future.

Cosmo Tech transforms decision-making in unpredictable business environments by enabling leaders to simulate complex scenarios before they happen. Unlike traditional optimization tools, our AI-Simulation platform captures interdependencies across the entire value chain, generates high-fidelity synthetic data, and delivers resilient strategies that turn market volatility into competitive advantage—proven to accelerate time-to-value by 20x while unifying organizations around a single model of truth.

TANGIBLE RESULTS

+5%

Profit

-60%

Transport costs

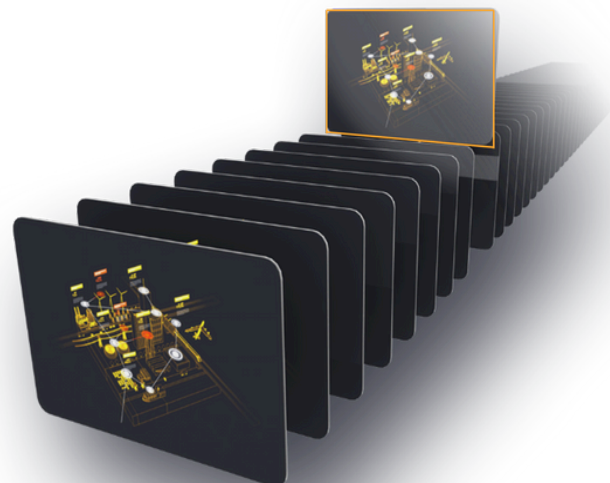
-8%

Inventory costs

FUTURE-PROOF YOUR SUPPLY CHAIN IN AN UNPREDICTABLE WORLD

Cosmo Tech offers a unique combination of AI, simulation and expert knowledge to optimize under macroeconomic uncertainty::

- Simulate supply chain disruptions and what-if scenarios
- Analyze the effects of tariff volatility on your operations and KPIs
- Model alternative sourcing strategies to minimize financial risk
- Increase supply chain resilience with localized production strategies
- Develop network-centric capabilities and redefine shipping routes
- Fine-tune stock levels for critical components by balancing tariff costs with just-in-time efficiencies.



CASE STUDY - DYNAMIC TARIFF ENGINEERING IN UNCERTAIN TIMES

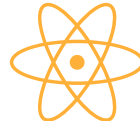
Our work with customers highlights the critical key value areas enabled by Cosmo Tech technology within the supply chain. These areas include risk management, strategic sourcing and network design, supply chain process optimization demonstrated through various use cases.

Faced with rising tariffs and unpredictable trade policies, our customer - a Fortune 500 manufacturer turned to AI Simulation to reduce cost exposure and build a more resilient supply chain. By creating a digital twin of their supply chain, they tested multiple routing and sourcing strategies under various tariff scenarios and uncertainty levels. This approach allowed them to identify vulnerabilities, reduce custom fees by 33%, and implement a mitigation strategy that preserved service levels, while strengthening their ability to quickly adapt to future disruptions and supply chain volatility.



ENHANCED CONSTRAINED PLANNING

Find the optimal supply and production plan that meet demands, while considering constraints (capacity, stock availability, lead times, uncertainties)



END-TO-END VALUE CHAIN MODELING

Create a dynamic replica of the entire supply chain, enabling unlimited scenario assessments to evaluate all alternatives and ensure a robust supply chain.



AGILE AND DYNAMIC PROCESS OPTIMIZATION

Dynamically adjust to changing conditions while consistently optimizing production, logistics and sourcing operations.



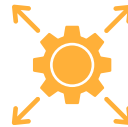
SUPPLY CHAIN VULNERABILITY SCAN

Proactively scan your supply chain to identify vulnerabilities, detect opportunities, and assess the cascading effects of unforeseen disruptions.



OPTIMIZATION AND UNCERTAINTY MANAGEMENT

Boost revenue and service levels while minimizing costs in dynamic conditions by accounting for resource capacities, inventory policies, lead times, and uncertainties



SCALABLE AI-SIMULATION PLATFORM

Unique model-driven approach leveraging high-fidelity synthetic data and AI to simulate thousands of automatic supply chain scenarios, capturing key dynamics, risks, and interdependencies with extendable models.

-33%

Custom Fees



The best decision is always going to be the one that takes into account the uncertainty and that leads to a positive outcome even when the future is going to be different than what was forecasted."

-Automotive Manufacturer Testimonial

Interested in learning more?
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