

FUTURE PROOF YOUR SUPPLY CHAIN WITH AI SIMULATION

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

OPTIMIZE EVERY ASPECT OF YOUR SUPPLY CHAIN

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

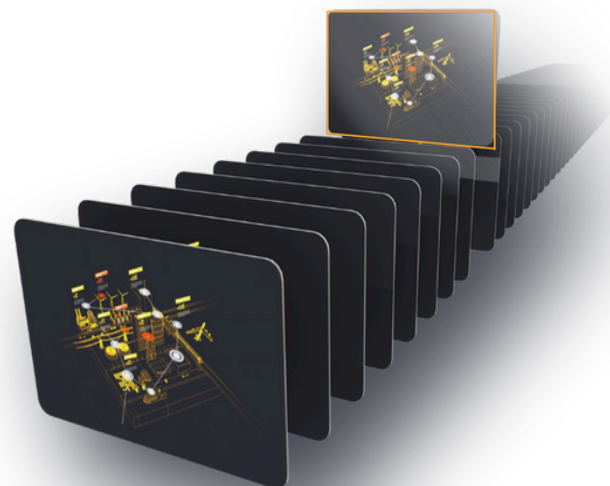
-8%
Inventory levels

COSMO TECH SUPPLY CHAIN FOR IMPACT-BASED DECISIONS

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

- Simulate supply chain disruptions and what-if scenarios
- Understand the impact of any business decision
- Model end-to-end flows with interdependencies and risk
- Optimize sourcing, production, and logistics decisions
- Adapt quickly with continuous, AI-driven insights

This approach leads to substantial savings in operational expenses, while increasing customer satisfaction.



CASE STUDY - OPTIMAL REPLENISHMENT AND TRANSPORT STRATEGY

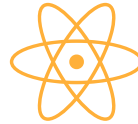
Our work with customers highlights the critical key value areas enabled by Cosmo Tech technology within the supply chain. These areas include inventory optimization, risk management, production and logistics demonstrated through various use cases.

Faced with disruptions and greater demand variability, our customer, a global automotive manufacturer aims to enhance inventory management by incorporating a probabilistic approach to account for uncertainties like demand volatility and lead times. By leveraging AI Simulation, the company has achieved significant results, including a 17% reduction in air freight costs, and identifying a \$30 million cost-saving opportunity. Additionally, an optimal replenishment strategy led to a 8% reduction in inventory levels, while ensuring consistent service levels.



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.



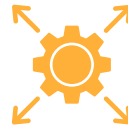
SUPPLY CHAIN VULNERABILITY SCAN

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.

10M€/year

Logistics Cost Savings



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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