

SIMULATION DIGITAL TWINS FOR PRODUCTION PLANNING & CONTROL

AUTOMOTIVE/AEROSPACE/MANUFACTURING/CONSUMER GOODS

Manufacturers face increasing challenges to maximize both customer satisfaction and profitability. Modern industrial supply chains are more complex and one disruption can impact an entire organization. They need a technology that allows them to master cascading effects across the entire value chain and ensure their action plan remains robust. Industry leaders rely on Cosmo Tech's Simulation Digital Twins to respond to these challenges.

BENEFITS



Improve service levels



Increase production throughput



Reduce time to plan

NOT YOUR STANDARD SIMULATION SOFTWARE

Cosmo Tech Supply Chain is designed for manufacturers looking to improve the way they plan their complex supply chain network in the face of volatility and change.

By creating a dynamic Simulation Digital Twin of an end-to-end supply chain, manufacturers can simulate and optimize production plans on demand. Powerful optimization algorithms based on simulation identify the optimal execution plan, outline actions for every step along the way, and over any time scale. This solution means that manufacturers are able to optimize current operations or adjust plans when unexpected events arise, while achieving desired KPIs.



Boost productivity and unlock value in your production plan

Our client is an international car manufacturer that has to adapt to a very competitive market and uncertain environment. He needed to boost the production of specific engines to meet an increasing demand while maintaining the same level of investment. Our client used Cosmo Tech's Simulation Digital Twin technology to create an optimal production plan that enabled him to increase the number of manufactured engines, by 4,000 without any additional investment, and improve the service level.

FEATURES



Unlimited what-if scenarios
Design & simulate scenarios to predict the impact of decisions on the whole organization.



How-to optimization
Prescribe the best operational strategy for your supply chain over any time scale.



Sensitivity analysis
Test robustness to unexpected events to mitigate risks and improve production planning.



Bottleneck identification
Automatically identify bottlenecks and understand what actions to take, when and where.



Safety stock positioning
Find the right safety stock level at each stage to ensure robust execution against variabilities.



Cost calculation
Consider the costs of your scenarios and develop a realistic production plan.

+4,000 engines without additional investment

“ With Cosmo Tech, we have found a tool that allows us to identify bottlenecks in our flows and suggest areas of improvement.

Supply Chain Expert at a leading automobile manufacturer

Gold
Microsoft Partner




Interested in learning more?
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