

# OPTIMIZE YOUR SOURCING STRATEGIES WITH SIMULATION DIGITAL TWINS

MANUFACTURING / AUTOMOTIVE / CONSUMER GOODS

COVID-19 has disrupted the business world and challenged supply chain reliability. It has impacted logistics globally. All industrial sectors are affected by the interrupted supply of required materials. Sourcing operations are facing demand imbalances leading to inventory challenges, uncertain delivery as well as a high risk to suppliers. Industry leaders rely on Cosmo Tech Simulation Digital Twins to respond to these challenges.

## KEY BENEFITS



Minimize  
total landed costs



Optimize  
existing flows

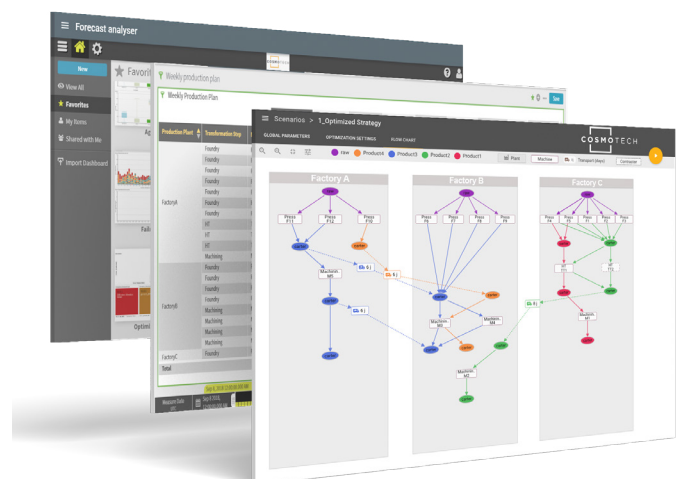


Reduce carbon  
footprints

## NOT YOUR STANDARD SIMULATION SOFTWARE

When market conditions change fast, being prepared matters more than ever. Companies need the ability to continuously design and optimize their sourcing strategies to reduce costs, mitigate risks, and increase service levels with agility.

By easily creating a dynamic Simulation Digital Twin of their supply chain network, manufacturers can virtually simulate any scenario, compare various sourcing options and anticipate potential cascading and bullwhip effects of several risks which could impact their final service and inventory levels.

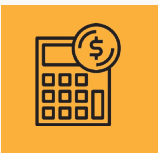


[ F I N D   Y O U R   F O R W A R D ]

# Identifying the Right Production Localization Strategy

Our client is a global industrial actor with annual revenues in excess of €20 billion, nearly 70 production plants worldwide, and operations in more than 170 countries. The company needed to build a 5-year plan to decide on the best sourcing strategy for the Chinese market. They used Cosmo Tech's Simulation Digital Twin technology to simulate over 80,000 sourcing strategies to determine the best ratio between local production and imports to reduce total landed cost. This new plan helped our client increase global profit by 5% and reduce their custom and transport costs by 60%.

## KEY FEATURES



### Cost Optimization

Balance production, storage, transport and custom costs to minimize total landed costs.



### Risk Impact Assessment

Use risk simulation to anticipate potential cascading and bullwhip effects impacting performance.



### Robustness Analysis

Build an optimal sourcing strategy resistant to demand uncertainty.



### Sensitivity Analysis

Get insights about the resources and variables having the greatest impact on supply chain resiliency.



### Unlimited What-If Analysis

Design & simulate scenarios to predict the impact of changes on key parameters such as custom duties or currencies.



### How-to Optimization

Prescribe the best operational strategy for your supply chain network.

**10M€/year**  
Logistics Cost  
Savings

“The world is variable, things are changing so fast, before making big investment decisions [...] you need to run future simulations to understand the risk being taken. We know the past, but with the Cosmo Tech technology we have the capability to compare different options and evaluate the risks.”

VP Supply Chain at a leading tire manufacturer

Gold  
Microsoft Partner  




**Interested in learning more?**  
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