

# OPTIMIZE YOUR SOURCING STRATEGIES WITH DIGITAL TWIN SIMULATION

MANUFACTURING / AUTOMOTIVE

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 Enterprise Digital Twins to respond to these challenges.

## KEY BENEFITS



Minimize  
total landed costs



Optimize  
existing flows

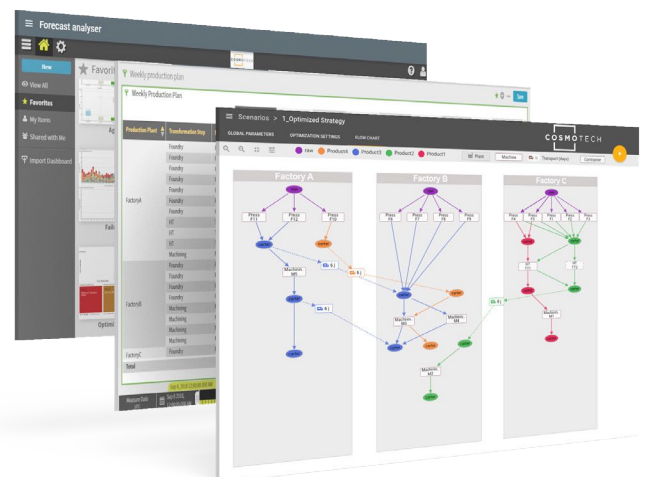


Reduce carbon  
footprints

## 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 Enterprise Digital Twin their supply chain network, manufacturers can simulate and optimize their strategic sourcing plan. With our powerful optimization algorithms based on simulation, they can find the optimal sourcing investment strategy and get a deeper understanding of their most sensitive parameters when making these strategic decisions.



## Optimize Sourcing Strategies to Maximize Profit & Service Levels

Our client is a leading tire manufacturer who needed to build a 5-year plan to decide on the best capacity investment for their extended supply chain network. They chose Cosmo Tech's Enterprise Digital Twin technology to determine the best ratio between local production and imports from all over the world to reduce total landing cost.

Our holistic digital twin simulation platform enabled our client to increase profit by 6.6 % by optimizing sourcing investment strategies based on cost and revenue structure while accounting for operational constraints.

### 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.

**6.6%**  
**PROFIT**  
**INCREASE**

**For Tier-1 suppliers, using Cosmo Tech Supply Chain for strategic sourcing provides an optimal short, mid and long term plan that adapts to unexpected events and volatile demand.**

#### Interested in learning more?

Thierry de Lumley  
Chief Business Development Officer  
thierry.de.lumley@cosmotech.com  
www.cosmotech.com