

# DIGITAL TWIN SIMULATION SOFTWARE

**EMPOWERING CONFIDENT DECISION MAKING IN AN UNCERTAIN WORLD**  
MANUFACTURING/AUTOMOTIVE/ENERGY & UTILITIES

For many people, the words “digital twin” conjure the image of a 3D model of a physical object. While traditional digital twins are replicas of individual machines, the newest class of digital twins can model entire organizations and complex systems that include the evolving dynamics of day-to-day business operations. Cosmo Tech provides holistic, strategically-driven digital twin simulation that leverages both predictive and prescriptive analytics to understand and ensure a future that is robust, resilient and sustainable.

## AT A GLANCE

**50%**

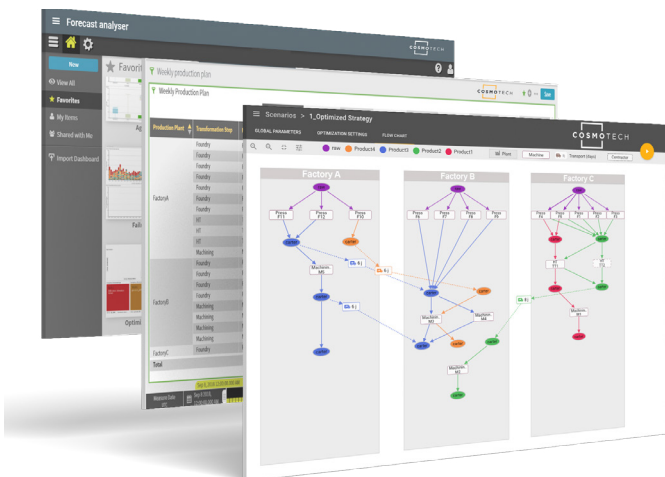
Industries using digital-twin technology by 2021

**10%**

Efficiency increase for companies using Enterprise Digital Twins<sup>1</sup>

**20-30%**

Cost reduction for industries deploying digital twins<sup>2</sup>



## Digitally mimic your operations to find real-world answers through simulation experiments

- ✓ Deliver a 360° view of the strategic and operational reality to optimize your planning against risk.
- ✓ Develop scenarios that incorporate disruptions to plan for the future.
- ✓ Ensure you are obtaining optimal ROI for your KPIs.
- ✓ Overcome issues related data quantity and quality thanks to low requirements for exhaustive past data.

<sup>1</sup>Top 10 Strategic Technology Trends, Gartner, 2019.

<sup>2</sup>Howells, Richard. Thought-Leader Round Table: Three Experts Discuss Digital Twins, Forbes, 2019.

## EXAMPLES OF DIGITAL TWIN APPLICATIONS



### Production Planning

Optimize your production plans to deliver value at every stage of your manufacturing process.



### Strategic Sourcing

Optimizing sourcing investment strategies based on cost and revenue structure while accounting for operational constraints.



### Asset Investment Optimization

Optimize your asset investment strategies and make the right investment for the right assets at the right time.

## A UNIQUE TECHNOLOGY PLATFORM TO MAXIMIZE RETURN ON DATA



### Systemic simulation & optimization

Go beyond predictions based on historical data and bring new levels of flexibility to your simulation. Our technology considers cascading effects and emerging behaviors for accurate prescription.



### Holistic, resilient business planning

Take advantage of our proprietary modeling language to model complex scenario at enterprise scale. Plan ahead and rapidly adapt to change.



### Data of the future to grow AI

Leverage simulation data to train and test AI models in a risk-free, virtual environment and enhance monitoring, situational awareness, and failure detection in any situation.



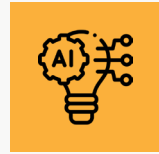
### Cloud-native technology

Integrate seamlessly within data-lake, IoT & AI environments and facilitate data-sharing with stakeholders across the entire enterprise.



### Capturing uncertainty

Measure risk and get resilient & optimal strategies to robustify decision making.



### Leveraging existing data-based tools

Magnify impact of data investments on decision making.