

SIMULATION DIGITAL TWINS FOR ASSET OBSOLESCENCE MANAGEMENT

MANUFACTURING / ENERGY & UTILITIES

Aging technologies, loss of expertise for old systems, lack of old components - these are all things that make it difficult to sustain a manufacturing system and to stop parts from failing and becoming obsolete. Inevitably, obsolescence occurs, and managers need to plan ahead to mitigate production risks.

BENEFITS



Reduce stock levels



Increase production throughput

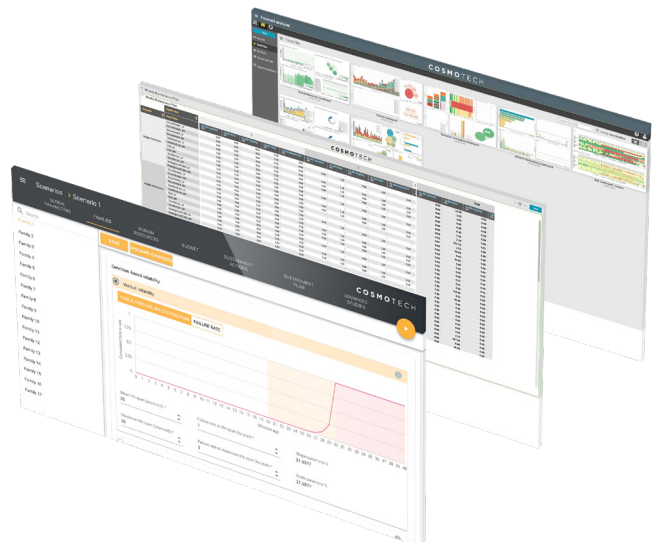


Reduce cycle times

NOT YOUR STANDARD SIMULATION SOFTWARE

Cosmo Tech Asset is a Simulation Digital Twin software solution designed for enterprises looking to transform the way they manage the obsolescence of industrial assets.

Industrial directors can easily create a dynamic Simulation Digital Twin of their plant's operational assets and simulate any number of what-if scenarios to test different asset obsolescence management strategies. With our powerful optimization algorithms based on simulation, they can find the optimal trade-offs between their objectives and their operational constraints.



[CASE STUDY]

Optimize Industrial Asset Investments & Control Risk Exposure

Our client is an international car manufacturer who needs to manage the obsolescence of different industrial assets on his production lines. Most of these components are becoming obsolete, which leads to downtime, high maintenance costs and revenue losses. The scarcity and increasing price of spare components and the loss of expertise of the maintenance teams on aging assets are also a major concern. They sought to find a tool that could determine an optimal maintenance and renewal planning for different time scales. They deployed Cosmo Tech Asset.

FEATURES



Asset degradation:

Forecast asset condition to represent effect of time and load



Renewal projects:

Simulate equipment renewals and associated CAPEX to evaluate investment scenario outcomes



Maintenance policies:

Bring OPEX into the financial balance by including all required resources during the simulation



Risk assessment & monetization:

Combine asset condition and criticality to leverage the integrated risk-value framework



Unlimited what-if scenarios:

Design and simulate scenarios to predict the impact of your decisions on your whole organization



How-to optimization:

Prescribe the best strategy for your investment plan at any time scale to support your KPIs

50-80%
CAPEX SAVINGS

“The results are more than convincing. Cosmo Tech simulation technology helped us to optimize our asset management strategy in Europe. We were able to identify clear levers to lower risk and generate savings over 5 years of 50 to 80% depending on the year.

Maintenance Expert at a leading automotive manufacturer



Interested in learning more?

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