

# SMARTER ASSET INVESTMENT MANAGEMENT DECISIONS WITH AI SIMULATION

Balance risk, financial and operational performance

Decision makers in asset-intensive industries are challenged daily to make optimal choices and accurately plan the future of some of the most complex industrial systems. Their choices need to be reliable and accurate, and the views of all stakeholders need to be reconciled in a single, optimal strategy. Operating budgets for maintenance and strategic budgets for long-term investments must be controlled, while meeting corporate targets for performance, profitability, safety and sustainability.

With Cosmo Tech AI Simulation, asset managers can test every possible future scenario, assess and compare the impact of their decisions, and choose the right strategy to balance complex trade-offs while optimizing the life and value of their asset fleet.

**-15%**

**TOTEX**

**+10%**

**CAPEX Efficiency**

**-12%**

**Operational risk**

## RETHINK YOUR ASSET STRATEGIES FOR MAXIMUM RETURN

Cosmo Tech offers a unique combination of advanced technology, expert knowledge, and innovative methodology to tackle complex challenges that traditional methods and other AI/ML technologies cannot address.



## RTE, NEXANS, TENNET & GROUPE E

Aging assets, financial pressures, and regulatory challenges create hurdles for asset-intensive industries, such as obsolete technologies, scarce replacement parts, and limited CAPEX. For manufacturing, telecom and energy customers, this means balancing investment levels with failure risks to develop robust CAPEX/OPEX plans.

By building dynamic models of their operations, including asset ages and constraints, our customers tested and validated asset management strategies. This enabled optimal risk mitigation, aligned with KPIs, while justifying investments and supporting cross-functional decision-making.



### CONSISTENT HIGH QUALITY DATA

Optimal decision making through precise data calibration and accurate, explainable simulations.



### ASSET-CENTRIC APPROACH

Comprehensive asset-centric clarity for system-wide impact analysis and strategic project execution.



### FLEXIBLE SCENARIO SIMULATION

Single or clustered projects scenario simulations for precise CAPEX/OPEX forecasting under uncertainties.



### DYNAMIC ASSET PORTFOLIO VALUATION

Accurate analysis of cost sources and monitoring of asset valuation changes over time.



### RISK-BASED PORTFOLIO PRIORITIZATION

Effective prioritization by tracking, measuring, and optimizing risk profiles across the asset network.



### SCALABLE AI-SIMULATION MODELING

A unique model-driven approach accurately capturing the dynamics of the asset network and including tools for extending models and running extra simulations.



**There are different ways to calculate optimal strategies, but only simulation can reassure us or, on the contrary, alert us to potential pitfalls.”**

- Gabriel Bareux, R&D Director, RTE



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