

MASTER YOUR ASSET INVESTMENT STRATEGIES WITH DIGITAL TWIN SIMULATION

ENERGY & UTILITIES

Aging infrastructure, regulatory compliance, sustainability and uncertain demand; organizations are facing increased pressure to prioritize investment with limited funds and plan for the future. Asset-intensive industries need to make the right investment for the right assets at the right time. Industry leaders rely on Cosmo Tech Asset, our Enterprise Digital Twin solution to respond to these challenges.

Key Benefits



Increase revenues & profitability



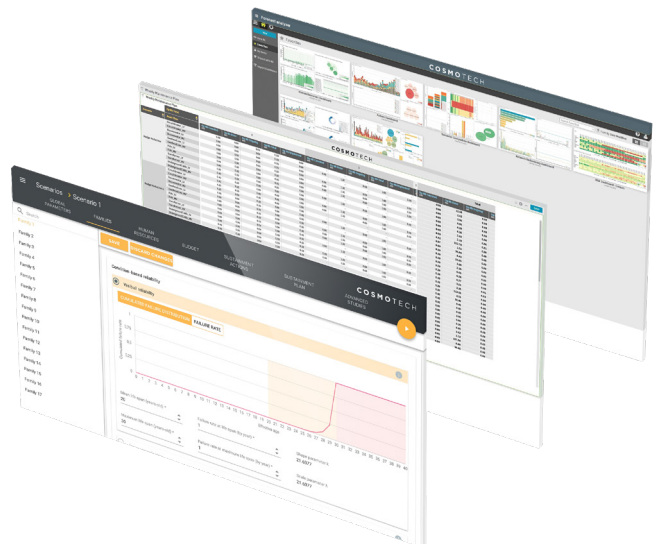
Find the optimal CAPEX/OPEX investment plan



Unify asset planning across the organization

Simulation-driven strategic asset management

- ✔ Predict the outcome of an OPEX/CAPEX trade-off decision and prescribe an optimal investment plan.
- ✔ Develop scenarios that incorporate asset behavior, policies, HR & finances and more.
- ✔ Align organizational objectives with asset management strategies, plans and activities across the whole life cycle of assets as defined by the ISO 55000 standard.
- ✔ Improve integration and overall efficiency of asset management processes and systems.



[CASE STUDY]

Optimize Your Asset Business Plan

Our client is Europe's largest electricity transmission system operator with a network of more than 100,000 kilometers of lines, more than 8000 employees, and revenues in excess of €4 billion annually. As the sole enterprise responsible for transmitting electricity nationally, it needs to deliver short-term operational efficiency as well as long-term strategic investments to ensure future reliability, and all while operating within the constraints of a budget fixed following a tariff case presented to regulators.

Our client implemented Cosmo Tech Asset, a digital twin software solution empowering asset managers to make strategic investment decisions for short, medium, and long term operations. When making their case for a new tariff to national regulators, our client was able to justify their strategy by highlighting the impact of each of their decisions on the reliability of their network and transparently explain why their optimized strategic business plan ensured short-term operational efficiency, and long-term robustness.

KEY FEATURES



Simulate asset physical lifecycle

Simulate effect of time, physical degradation, loss of structural integrity, occurrence of defects or failures.



Simulate asset financial lifecycle

Evaluate the financial value of your assets throughout their lifecycle and assess the interest charges paid in your balance sheet for each asset.



Simulate sustainment plan

Simulate the full asset management plan & incorporate maintenance and renewal policies.



Sensitivity analysis

Test the sensitivity of the simulated plan against uncertainty on key parameters or key strategic levers.



Unlimited what-if analysis

Design & simulate scenarios to predict the impact of your strategic decisions on an entire network or organization.



How-to optimization

Prescribe the optimal strategy that complies with budget constraints, outage capacity and tune HR allocation into one integrated plan.

10%
TOTEX
savings

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We were able to test and validate asset management scenarios that allowed us to optimize costs by around 10%, with an equivalent level of service for our clients.

A leading European electricity transmission company



Interested in learning more?

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