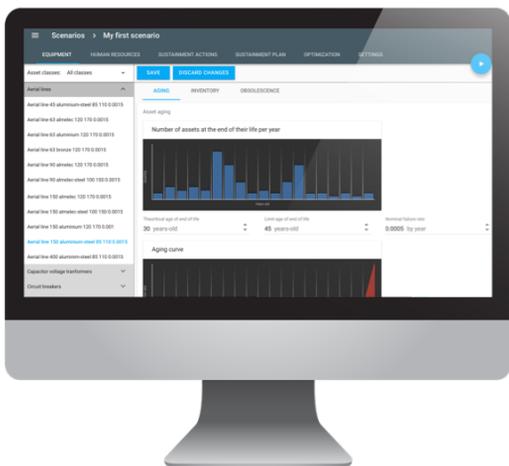


Cosmo Tech's Asset Investment Optimization (AIO) application is the world's leading decision management platform designed especially for the complex systems that utility executives negotiate every day. It helps them extract the maximum value from their assets and make optimal decisions for their strategic sustainment plans and investments considering their systems as a whole, not locally or in silos. AIO allows asset managers to make trade-offs between CAPEX & OPEX while mitigating risks and reducing intervention conflicts. Last but not least, AIO is aligned with ISO 55000 international standards in asset management.

1. Create scenarios to simulate multiple operational constraints

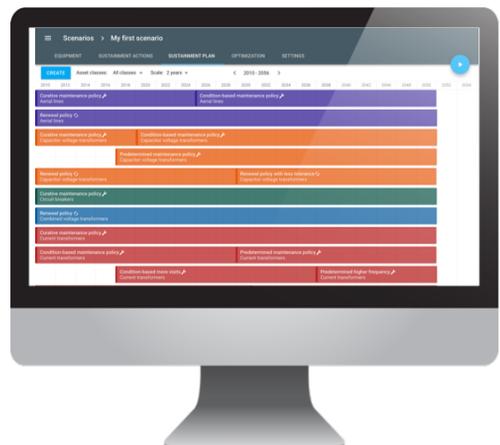
(cost, asset management, resources, network, ...)



- Define asset classes by families with their equipment characteristics, criticality and degradation curves.
- Monitor the aging curve of your asset protection control system (i.e. paint, oil...).
- Configure the sustainment actions (inspection, maintenance, repair and renewal) and the obsolescence.
- Evaluate the sustainment actions impact on the asset (effective age of an asset family, asset health index).
- Configure your resource capacity cost by geography (hourly rate), team, and capacity constraints per year.

2. Create multiple maintenance and investment plans

- Specify preventive maintenance (predetermined and condition-based), corrective maintenance as well as renewal strategies.
- Trigger the sustainment plans on multiple criteria.
- Combine multiple types of sustainment plans in sequence and/or in parallel.
- Allocate the budget by expense type (CAPEX, OPEX) per year.



3. Iterate! Create new scenarios from a master scenario and share it with other users

Q Search ALL SCENARIOS MASTER PLANS Recent All ownerships

Private master plan ★

This is the description of the scenario. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Last run Jan 20, 2017 (30 minutes 10 seconds)
Last update Jan 20, 2017
Created Jan 20, 2017

Shared with me master plan 👤 ★

This is the description of the scenario. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Last run Jan 06, 2017 (31 minutes 40 seconds)
Last update Jan 06, 2017
Created Jan 05, 2017

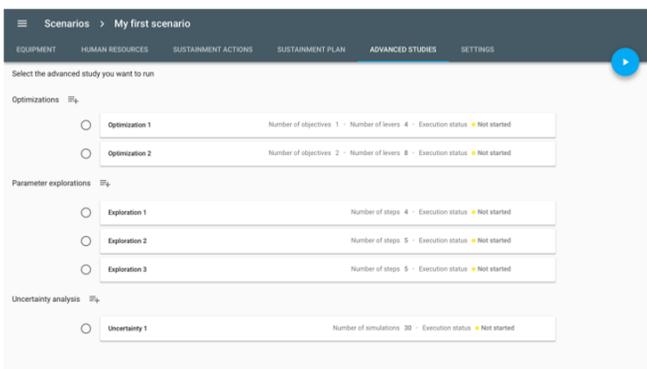
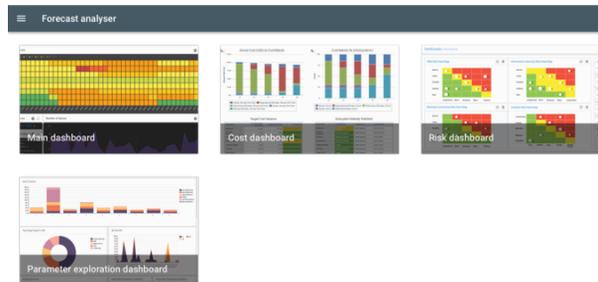
Shared with others master plan 👥 ★

This is the description of the scenario. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Last run Jan 03, 2017 (28 minutes 50 seconds)
Last update Jan 03, 2017
Created Jan 03, 2017

4. Launch a single scenario or compare multiple scenarios to obtain the simulation results

- Use preconfigured Dashboards with KPIs on : equipment failures, type of operations (repairs, replacements) and their status (in progress, delayed, cancelled...), budget (CAPEX, OPEX), HR (number of team shortages), type of risks (energy not supplied, HSE, financial, regulatory).
- Configure charts per asset class, region, over time, total...
- Visualize evolution of KPI over time.
- Export an operation masterplan that provides an accurate macro level list of operations for each year and integrate them in your project planning tool.
- Upload your own data set.



5. Use advanced studies and get the most significant KPIs

- Evaluate the uncertainty of your results thanks to Monte Carlo simulation.
- Identify optimal parameters for a single strategy.
- Explore multiple simulations with a variation of a single criteria.

Benefits of Cosmo Tech's approach

- AIO is based on the Cosmo Tech's Platform : a systemic decision management platform for complex systems.
- This modelling environment captures constraints and business rules related to the network, asset management, resources, and risks all at once.
- Thus it has the capacity to take into account evolving parameters to adapt to future regulatory and market changes.
- This decision management platform is dedicated to TSOs/DSOs/DNOs in order to manage linear and non-linear asset.
- It allows to integrate user-defined business rules and expertise, including for monetized risk, deterioration model and planning optimization rules.

Technical Benefits

- Integrate AIO with existing systems, models and data sources including SAP and GIS.
- Define different user roles and control access to AIO features, interfaces and output data.
- Protect data via user authentication.
- Make parallel calculations to speed up simulations by using Spark cluster technology (standard in AIO)
- Store simulation results in any database. AIO relies on best-in-class practices in its standard configuration (open data format based on star-schema, PostgreSQL).
- Use AIO as a hosted application or as on-premise software.

About Cosmo Tech

Cosmo Tech is a global technology company that helps the C-suite make optimal decisions. Through our unique methodology, we model and then simulate complex scenarios to accurately predict the outcome of events even if those events have never happened before. And we deliver interconnected insights that tell you how each part of your organization would be affected by your potential choices so you can make the best decisions for your company. What we do goes way beyond big data and data science to decision management. We transform companies by giving them reliable insight into the future.

Thierry de Lumley - Chief Revenue Officer - tdelumley@cosmotech.com

www.cosmotech.com