

InfraModex

Design optimal asset investment strategies

Utilities share common challenges when it comes to designing asset investment plans that target the right interventions, on the right assets and at the right time. InfraModex offers a unique investment strategy development approach to help deliver sustainable energy networks for current and future customers while maximizing their financial performance and meeting their regulatory obligations.

InfraModex supports a utility's efforts to efficiently leverage available data, know-how, standards, and best-practices to develop focused asset management strategies linked to their specific asset base, business objectives and constraints in order to secure the investment necessary to execute them successfully.



Asset Management
Executives / Operation /
Maintenance / Development
/ Engineering / Finance

- ✓ **Integrated Capital Program**
 - Optimal OPEX policies
 - Inspection
 - Maintenance
 - Refurbish/Overhaul
 - Hiring & Training plans
 - Optimal CAPEX policies
 - Proactive replacement
 - Re-design
 - Run to failure replacement
- ✓ **Sustainable Funding Needs & Financial impacts**
- ✓ **Forecasted technical performance (e.g. reliability, safety and environmental KPIs)**

**Stakeholders,
Organisational
and Regulatory
Objectives**

DISTINCTIVE APPROACH

InfraModex is founded on a unique and highly configurable decision-tree modeling approach supported by advanced and versatile predictive financial and performance reporting capabilities. Furthermore, its stochastic simulation engine ensures that the uncertainty inherent to the asset investment planning process' inputs and outcomes is properly considered and characterized.

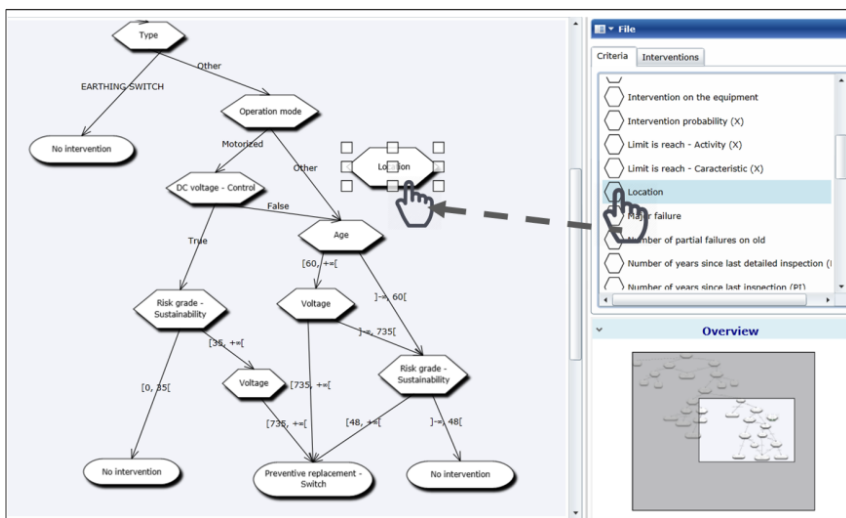


ABOUT CGI

Founded in 1976, CGI Group Inc. is the fifth largest independent information technology and business process services firm in the world. Approximately 68,000 professionals serve thousands of global clients from offices and delivery centers across the Americas, Europe and Asia Pacific, leveraging a comprehensive portfolio of services, including high-end business and IT consulting, systems integration, application development and maintenance and infrastructure management, as well as 150 IP-based services and solutions.

“GLASS, NOT BLACK BOX” APPROACH

Due to its powerful yet simple decision tree modeling tool, InfraModex easily self-generates comprehensive combinatorial models which can be applied within InfraModex’s Monte-Carlo simulation process. By leveraging this “glass, not black box” approach, all stakeholders involved in the design and audit of investment plans can clearly understand the criterion driving decisions about performing an intervention or not for every year of the planning horizon. This enables all stakeholders involved in asset investment planning (e.g. engineers, maintenance managers, financial planners) and auditing processes to understand and assess the relationship between constraints, investment strategies and the resulting global forecasted risk and financial performances outlook.



DILIGENTLY CONSIDERING RISK INHERENT TO LONG-TERM PLANNING

As a result of its Monte-Carlo simulation approach, InfraModex considers and characterizes the uncertainty regarding elements such as the current conditions of assets, their future degradation, and the costs of various interventions and forthcoming demand. This approach is critical in mitigating unreliable forecasts which can result in inefficient investments. In order to make risk-informed decisions, executives and regulators must be able to assess the uncertainty inherent to the financial and technical projections associated with a proposed plan. The importance of properly taking into account the uncertainty that cause variations and create risks is also identified by ISO 55000 as one of the key concepts driving strategic asset management outcomes.

GET THE REGULATORY FUNDING THAT YOU NEED

Tell CGI about your toughest asset investment planning challenge today!

Satisfying clients is our business and through our unique client proximity and best-fit global delivery model, we are committed to take on your toughest and/or most strategic asset investment planning challenge! CGI can perform a short and highly-interactive pilot project allowing your experts to fully assess InfraModex hands-on, as well as appreciate the requirements and value that a full deployment can yield.

INFRAMODEX BENEFITS

- **Increase revenues** - InfraModex allows utilities to demonstrate to Regulators the relationship between revenue constraints and possible network performance, thus favoring the approval of proposed investment plans.
- **Increase profitability** – InfraModex empowers utilities to reduce OPEX and/or CAPEX expenditures (or better distribute spending between them) as well as to optimize economic return on asset investments while respecting risk and level of services mandated by their Regulator.
- **Maintain a long-term strategic outlook** - InfraModex helps improve the sequencing of asset replacements to better coincide with technological lifecycle and ensure that the long-term consequences of short term decisions are diligently considered to prevent future “investment walls”
- **Document internal best-practices and systematize their adoption across the organization** - InfraModex ensures the systematic and efficient documentation, through clear decision tree models, of key asset management know-how from often soon to be retiring experts
- **Improve internal collaboration & synergy** – InfraModex increases engagement from across the organization and helps secure buy-in from different stakeholders groups by objectively and transparently arbitrating competing demands for limited capital with their direct input
- **Improve integration and overall efficiency of asset management processes and systems** – InfraModex integrates with other asset management systems such as ERP or project portfolio management solutions which fosters coherence, retroaction and efficiency from strategic planning all the way to project execution
- **Align with ISO 55000** - InfraModex ensures alignment of organisational objectives with asset management strategies, plans and activities across the whole life cycle of assets as well as other key concepts defined by the ISO 55000 standard.
- **Streamline planning and auditing process**

FIND OUT MORE

To learn more about how InfraModex can help you meet your business challenges, contact us today at inframodex.qm@cgi.com.