

CONFIDENT PIPELINE RISK ASSESSMENT

Identify. Assess. Mitigate.



There are many ways to calculate risk. For pipeline operators, integrity and risk mitigation are a priority in daily operations. Dynamic Risk's **IRAS RiskAnalyst** gives users the freedom to choose the right methodology for the task to understand system safety and optimize spend where it is needed most.

IRAS RiskAnalyst provides the processing, workflow support and analytics to identify a pipeline system's threats and consequences, and assess the risk of a potential failure.

INTEGRATED DATA MANAGEMENT

Calculate risk using aligned and integrated pipeline data including system routing, manufactured specifications, installation details, pipeline service, operations, maintenance and repair data, as well as the results of inspection, integrity and remaining life assessments.

FULLY COMPLIANT AND AUDIT-PROVEN

Functionality takes into account legislated regulation, authoritative and accepted guidance, consensus industry standards and relevant best practices, giving pipeline operators the compliance confidence they need.

SCENARIO MODELING

Users can select from industry best practice qualitative, semi-quantitative or fully quantitative risk models, or use a unique model. Each model can be adjusted as needed to reflect an increased volume of data, improved data quality, system knowledge, or regulatory requirements.

INDUSTRY-LEADING RISK ANALYTICS

Likelihood of failure algorithms for each category of threat, consideration for interactive threat scenarios, consequence of failure assessment, risk quantification, and risk threshold setting ensures pipeline system risk as low as reasonably practical (ALARP).

DYNAMIC SEGMENTATION AND REPORTING

Threat, consequence and risk is quantified for dynamically segmented pipelines or can be rolled up to a predefined section of pipe or to the pipeline system level for further analysis or risk ranking.

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AND
MITIGATION**

Asset integrity teams have the ability to understand and manage changes impacting pipeline risk using IRAS RiskAnalyst's qualitative, semi-quantitative and quantitative approach to risk management.

Users have the ability to demonstrate an optimized plan through systematic testing, scenario models and cost-benefit analysis to continuously refine and improve their pipeline risk assessment program.

KEY FEATURES

- Case study "what if" analysis.
- Raw data display used in risk calculations.
- Comparison of failure likelihood and consequence.
- Prioritize pipeline segments for maintenance.
- Supports qualitative, semi-quantitative and fully quantitative risk analysis.
- User equation editor for risk model modification.
- Identify and display primary risk drivers.
- Identify threats, threat interaction and mitigation options.
- Systematic testing of new ideas and concepts.
- Store and manage historic results.
- Integration of ILI data.
- Users can schedule single or recurring risk runs, as a native Windows service.
- Disable module at run time to support near real-time risk results.



AUTHOR

Our add-on tool, Author, provides users additional functionality which enables self-serve capabilities to edit, test, and build other algorithms and logic using natural language.

ABOUT US

Dynamic Risk's technology and consulting services optimize risk-informed decision making to manage risk through an asset's entire life cycle. Our IRAS platform software models pipeline systems to proactively determine where they are most likely to fail and the corresponding consequences of unintended releases. From gathering systems, midstream pipelines, transmission pipelines, and distribution networks, we have software applications and in-house engineering expertise to provide complete pipeline risk assessment, data management and compliance reporting.

Canadian Headquarters

Suite 1110
333 - 11 Avenue SW
Calgary, Alberta, T2R 1L9
(403) 547-8638

USA Headquarters

10001 Woodloch Forest Dr
Suite 250
The Woodlands, TX 77380
(832) 482-0606

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