

## Extend the power of your solution

Uptime allows you to develop an integrity management plan that not only maintains compliance, but also achieves enhancements in shareholder value by optimizing operations and better targeting your integrity budget.

Extend the power of your solution with complementing products and services from GL Noble Denton. GL Noble Denton's full line of offerings ensures that you get the right solution for your exact business needs. GL Noble Denton can help you leverage your investment by ensuring the accuracy of your company's data, integrating your information systems and turning your asset data into actionable intelligence available to decision-makers across your company.

## The GL Noble Denton Advantage

### Industry-leading Experts Delivering World-Class Solutions

GL Noble Denton's comprehensive knowledge and experience in the industry is unmatched around the world. Not only do we supply you with software products tailored to your individual needs, but we also offer comprehensive services relating to all safety and efficiency aspects of managing, maintaining and investing in infrastructure.

### Technical Support


When you choose GL Noble Denton, you're not just getting the world's best asset performance knowledge capability, you're also getting the most obsessive technical support in the industry. Our team of professional engineers is committed to delivering world-class support, training and education. Rest assured that our technical support team is ready to help you get the most out of our software solutions.

### Strong Integration and Partnerships

GL Noble Denton proudly partners with ESRI and Miner & Miner™, as well as other GIS and technology leaders, to bring you the most powerful and comprehensive solutions available.

[www.gl-nobledenton.com/software](http://www.gl-nobledenton.com/software)

Email [glnobledenton@gl-group.com](mailto:glnobledenton@gl-group.com)




**UPTIME**  
INTEGRITY MANAGEMENT

**SPATIAL RISK ANALYSIS**  
**PIPELINE INTEGRITY**  
**GIS PIPELINE DATA**  
**MAINTENANCE**

**GL Noble Denton and Uptime®:**

- Combine excellence in pipeline integrity, risk assessment and GIS solutions
- Provide a comprehensive pipeline integrity and risk management solution
- Enable you to implement cost effective pipeline safety and reliability systems
- Maximise the value of your spatial data for integrity and risk assessment
- Your worldwide partner for pipeline data management and analysis solutions



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GL Noble Denton



## Pipeline Integrity Management

Information and data are among an organization's most valuable assets. In the pipeline industry, these elements help pipeline operators make cost-effective decisions to ensure system safety and integrity.

Uptime® is an integrated, geographic information system (GIS)-based pipeline industry data management and analysis solution designed to help you achieve optimum value from your assets.

This value must be achieved within a framework of regulatory rulings and guidelines that determine standards for safe pipeline operations. Whether you choose a prescriptive or performance-based system management approach, Uptime's highly flexible tools and configuration options can help. Uptime enables you to implement your approach in a business process-driven data management and analysis environment that best fits and grows with your organization.

Uptime provides a complete range of tools to support data management in a single integrated environment, including:

- Data integration and management
- Process management and documentation
- Risk assessment
- Integrity assessment
- Performance measurement

## Pipeline Information Management

Uptime's Data Manager provides a robust data repository and flexible set of tools that allow you to manage pipeline routes, assets and survey data.

The repository manages data in a GIS-enabled environment based on ESRI® ArcGIS® and Oracle® or Microsoft® SQL Server™ database systems. The Data Manager is compliant with ArcGIS Pipeline Data Model (APDM) version 4.

## Process Management

Uptime provides the process management tools essential to configuring your data management system to work seamlessly with your integrity management plan. When combined with the built-in document manager, Uptime provides full process documentation and change management capability.

Uptime maintains and manages the relationship between data, assets and business processes, allowing you to easily access data and obtain an accurate view of the condition and integrity of your assets. You can set up and manage the full lifecycle of your integrity processes, including risk assessments, direct assessments and inline inspection programs.



## Risk Assessment

Uptime provides GIS-enabled engineering analysis tools for pipeline condition assessment that allow you to identify high consequence areas (HCA), conduct threat assessments as required by B31.8S and calculate pipeline system risk.

Key to Uptime's risk assessment capability is the Risk Modeler. Risk Modeler offers preconfigured models and allows you to manage and modify existing models, implement unique versions or build new models. The Modeler can be used for relative and semi-quantitative methods and complements existing fully quantitative models available for selected threat categories.

## Integrity Assessment

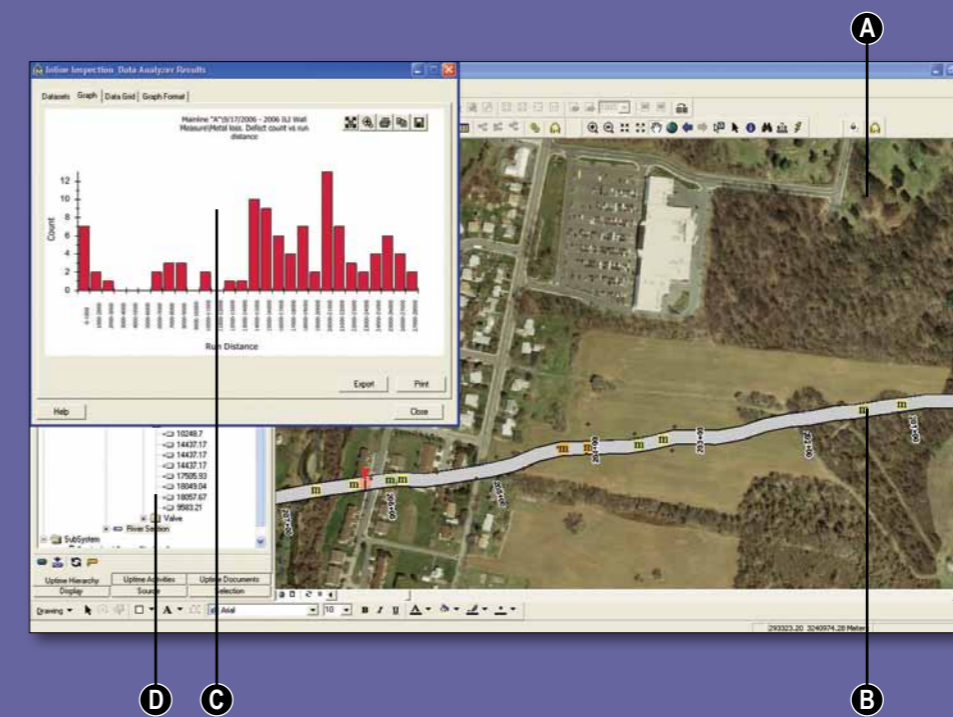
Uptime's integrity assessment analysis is supported by tools for viewing, analyzing and managing processes for inline inspection (ILI), direct assessment (ECDA and ICDA) and corrosion control.

ILI features can be assessed and included in proximity analyses either relative to other defects or fittings or to environmental features such as line crossings and buildings. Potential pipeline anomalies can be identified and tracked for field evaluation.

Uptime integrity assessment allows you to view indirect surveys and information required by direct assessment methods and to select and track indications for direct examination and assessment. Uptime can be configured to implement recognized processes such as NACE RP0502 or to reflect your own methods.

Uptime's tools can also manage, view, analyze and report on cathodic protection (CP) data from your corrosion management program.

## A geospatial solution to manage data and aid decision-making



- A Uptime offers integrated GIS-enabled data management and analysis tools to meet best practice and industry standards for sound engineering analysis.
- B Uptime's risk assessment tools help you determine and monitor pipeline risks. The threat assessment and Risk Modeller can be used to determine system, pipeline and segment level risks.
- C ILI, DA and CP tools support Uptime's integrity assessments and can be used to conduct defect assessment and determine the remaining life of pipeline segments.
- D Uptime's Activity Manager and activity-driven applications ensure that process management requirements are met when working in the Uptime environment.

## Uptime workflow

Uptime can be used throughout the lifecycle of various pipeline assets and processes, including:

**Data Loading.** Load and create centerlines and assets using the Facility Editor, Data Alignment and Data Administrator tools.

**Process Management.** Set up and track business processes using Activity Manager to plan and track your risk assessment and inspection and maintenance programs.

**HCA and Risk Assessment.** Identify high consequence areas, conduct threat assessments and calculate risk using the Risk Manager.

**Survey Data Management.** Load ILI and above ground survey data using the Data Alignment and Data Administrator tools.

**ILI Data Analysis.** View and analyze ILI data in the ILI Data Analyzer.

**Direct Assessment.** View, analyze and report external or internal corrosion direct assessment processes and data using DA Data Analyzer.

**Excavation Planning.** Review potential excavation sites and plan excavations using Excavation Manager.

**Audit Trail.** Uptime imprints all processes with date, time and user stamps. The Document Manager relates business process documentation with assets and activities.

**Reporting.** The Report Manager allows you to access and analyze results, integrity status reports and performance indicator metrics.

**Visualization and Navigation.** Uptime tools provide easy and comprehensible data access and visualization needed for pipeline management.

Uptime's pipeline navigator allows you to identify and locate sites and assets using global positioning systems (GPS), stationing and schematics.

The solution's alignment sheet generator is a dynamic pipeline viewer combining the strengths of mapping and chart-based data views.