



# fathom<sup>TM</sup>

Pipelines

**Lifecycle Management—AI-Driven**

Increase Integrity  
Minimize Downtime  
Improve Safety & Compliance



## THE CHALLENGE: PIPELINE INTEGRITY

For midstream leaders, pipelines represent both a substantial financial investment and critical business assets. Pipeline construction has dramatically increased in recent years due to rising energy costs, resource shortages, and increased demand. At the same time, safety and reliability remain critical elements, and midstream leaders remain focused on ensuring the integrity of their existing pipelines and aging assets.

Midstream leaders face countless challenges managing the operations of their pipelines, born out of:

- Network Design & Legacy
- Local Regulations & Compliance Requirements
- Data Availability, Reliability, and Management
- Operational History & Details
- Calculating Corrosion Rates in Multiple Scenarios
- Determining the Remaining Lifetime of Each Pipeline Segment
- Energy Consumption
- OPEX Management
- Inspections

## THE SOLUTION: fathom PIPELINES

fathom Pipelines lowers your operational risk by mitigating your pipeline integrity issues.

fathom Pipelines gives you ongoing visibility into the current state of your assets, and of your system as a whole. Instead of remaining in a reactive state—constantly fixing sudden pipeline failures and resolving unplanned downtime—you will manage your pipelines from a proactive, strategic position.

fathom Pipelines unifies each core element of midstream 4.0 in a single platform. It simplifies the inherent complexity of creating and managing a smart midstream value chain, and gives midstream leaders the tools to move through a faster, easier, and more complete digital transformation.

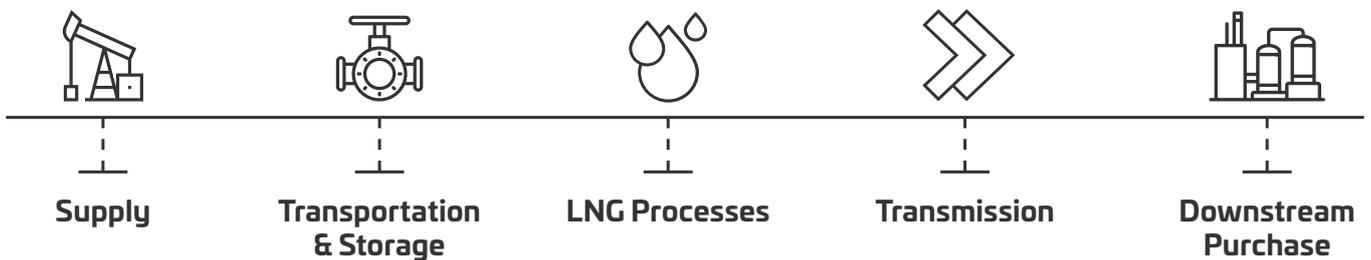
With fathom Pipelines, midstream leaders will gain:

- Less downtime.
- Safe, compliant operations.
- Improved pipeline health and integrity.
- Increased performance, efficiency, and output.
- Data-driven decision making.

## WHAT fathom PIPELINES GIVES YOU

fathom Pipelines is based on a built-in GIS platform and PODS data model. It deploys a sophisticated combination of engines & modules to rank the risks for each segment of your pipeline, from the segment level (level 4) to the network level (level 1). With fathom Pipelines, you will manage interventions of your pipelines—required for safety—in a cost-effective manner. By systematically mitigating risks, you will both reduce costs and extend the remaining lifetime of your pipelines.

With fathom Pipelines you will monitor each of your pipelines in their entirety, calculate the remaining lifetime of each pipeline segment, and make data-driven decisions about when to repair, replace, or retire each of your assets across your entire midstream operations.



## fathom PIPELINES: YOUR OUTCOMES

### IMPROVED INTEGRITY

Our platform offers a complete portfolio of technologies & software, engineering assessments, and deep industry expertise. We will deliver a customized, unparalleled solution to manage the integrity of your pipelines and relevant ancillary assets.

### DATA VISIBILITY

Our platform provides a powerful data viewer that displays 100% of your ILI data. You will generate a unique baseline run comparison for matching between ILI inspections, as well as accurate 3D visualizations of anomalies and pre-set analytical studies.

### LOWERED COSTS

Our platform gives you OPEX management tools, analysis, and capabilities to reduce your operational costs. You will create cost savings through the smart management of pipeline integrity through our Pipeline Integrity and Budget Optimization toolsets.

### ENERGY OPTIMIZATION

Our platform deploys multiple services to continuously calculate the efficiency of your pipelines, defines and suggests settings to improve efficiency, and drives easy & comprehensive supervision of each of your pipeline's energy consumption.

### MEASURABLE KPIS (ONLINE PIMS)

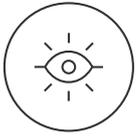
Our platform is RTTM-based, and will track the implementation and success of your corrosion control strategies via built-in KPIs. You will gain real-time digital performance metrics, intuitive visualizations, and new monitoring & control capabilities.

### PIPELINE INTEGRITY OUTLOOK

Our platform continuously improves pipeline integrity and sustains risk reduction through our Pipeline Integrity Management System (PIMS). Our platform gives midstream leaders the tools to rapidly and fully achieve their goals, objectives, and targets.

## HOW IT WORKS: OUR CORE FRAMEWORK

We simplify, accelerate, and complete digital transformation by following a simple—but powerful—three step framework.



### INSIGHT

We collect all of your data into a single central hub. We give you accurate, end-to-end, real-time visibility into every scrap of information generated by your operational and supply chains. We then package everything into a highly-personalized portal that gives you the insights you need at-a-glance.

- Monitor pipelines intelligently.
- Calculate pipeline efficiency.
- Detect failures.
- Track success of strategies.



### ANSWERS

We give you data-driven decisions. We apply advanced algorithms, machine learning applications, and cutting-edge A.I. to pull value from your complex operational metrics— all in real-time. We then give you simple answers that will diagnose issues, predict outcomes, and prescribe the right path forward.

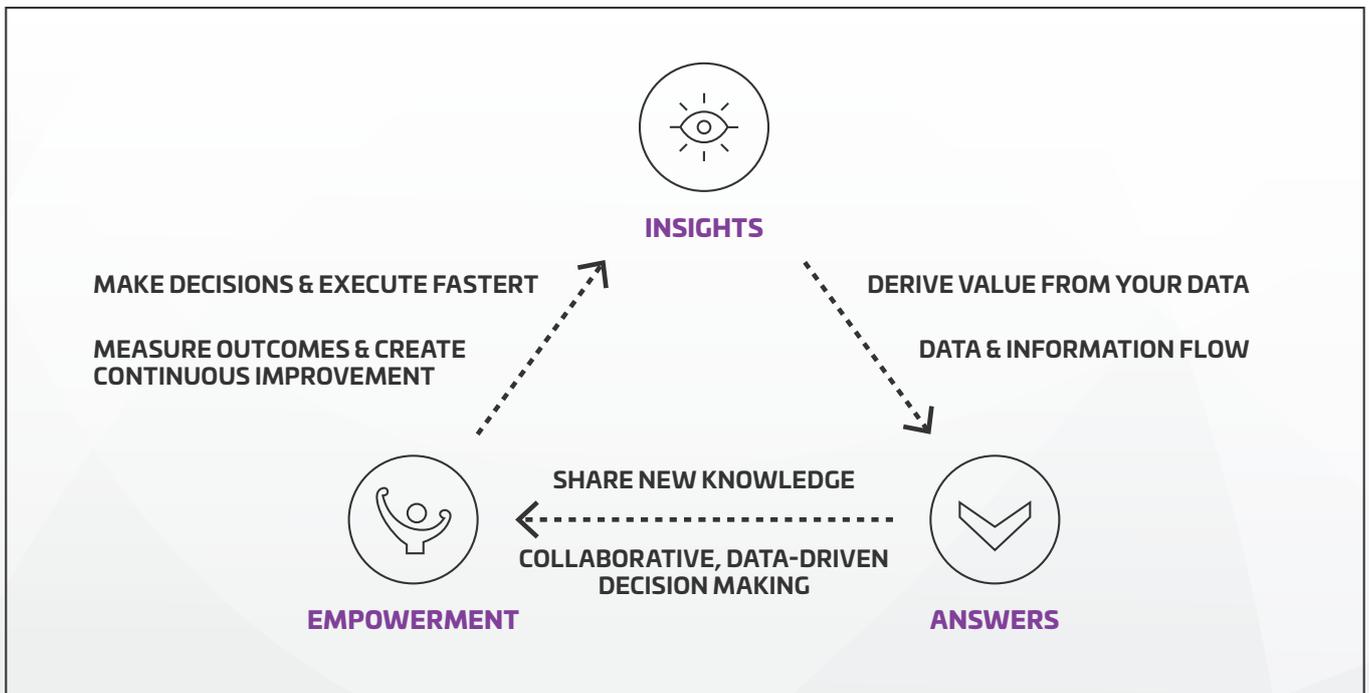
- Prevent downtime.
- Proscribe proactive actions
- Suggest optimal settings.
- Monitor safety & compliance.



### EMPOWERMENT

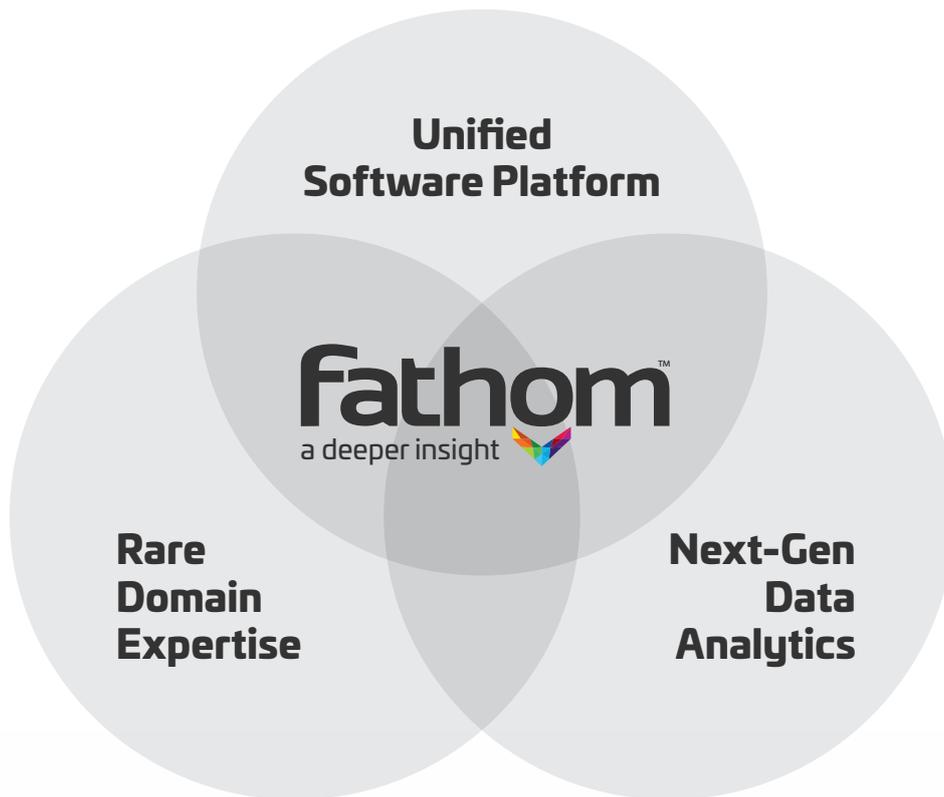
We accelerate your execution. We automate, streamline, and govern every critical action you must take to improve your KPIs. Every morning, when you open your portal, you will have everything you need to drive your performance— every insight, every answer, and every application, all from a single screen.

- Maintain integrity.
- Increase throughput.
- Improve KPIs.
- Accelerate execution.



## fathom PIPELINES: A HOLISTIC SOLUTION

fathom Pipelines is a portfolio of software platforms, domain knowledge, and analytics. By drawing from each portfolio element, we are able to evaluate and solve your complex challenges from multiple angles. By following this modular, flexible, and holistic approach, we are able to craft unique solutions that meet your unique needs.



### SOFTWARE PLATFORM

Our platform—Precocity—provides the technological foundation for fathom Pipelines. Precocity is a scalable, extensible, and collaborative platform that can integrate with your existing infrastructure & applications, and connects all of your devices & data sources into one central hub. Precocity can incorporate all emerging Industry 4.0 technologies, including IoT, AI, and Big Data Analytics. Our platform is flexible, and will grow as you increase the volume of your users and scope of your deployment.

### DOMAIN KNOWLEDGE

We provide subject matter experts with deep knowledge of your industry, operations, and challenges. Our experts will study your situation, select the appropriate portfolio elements, and develop a solution that meets your needs perfectly. We provide complete digital transformation advisory services that can prepare your legacy systems, processes, and infrastructure for the demands of digital manufacturing, and our experts can walk you through every step of solution design, implementation, and evolution.

### DATA ANALYTICS

We work hand-in-hand with your in-house teams to derive value from the wealth of data generated by your operations. We act as partners with your own technical experts and help them solve very advanced and highly-specific problems that they lack the bandwidth to solve on their own. Our teams of data experts can help your people sort through every stage of analytics, including managing your data assets, preparing your data, funnelling it into your solution, and producing clear data-driven insights & answers.

## fathom PIPELINES: A MODULAR, CUSTOMIZED SOLUTION

We are able to customize every aspect of fathom Pipelines to fit hand-in-glove with your unique context. While the following features, workflows, and user roles provide a taste of what fathom Pipelines can offer, we can also create entirely new algorithms, software, and processes that will integrate into your existing frameworks. Ultimately we will create a 100% unique deployment of our solution to meet your highly specialized needs.

## fathom PIPELINES: CORE FEATURES

### INTEGRITY MANAGEMENT

Monitor your liquid & gas pipelines. Build a complete, accurate, real-time picture of your entire pipeline system's integrity status.

### AUTOMATION & CONTROL SYSTEM

Manage your entire pipeline system from a dashboard. Streamline your operations and optimize every component of your system.

### ENERGY MANAGEMENT

Optimize your energy usage in real-time. Monitor efficiency levels and perform accurate cost runs on new configurations.

### ADVANCED ANALYTICS

Automate the complete data lifecycle. Capture your data, integrate it, analyse it, and visualize it with next-generation models.

### ASSET MAINTENANCE

Predict which assets will fail, when. Continuously monitor asset risk levels, assign predictive maintenance, and avoid downtime.

### DATA VISUALIZATIONS

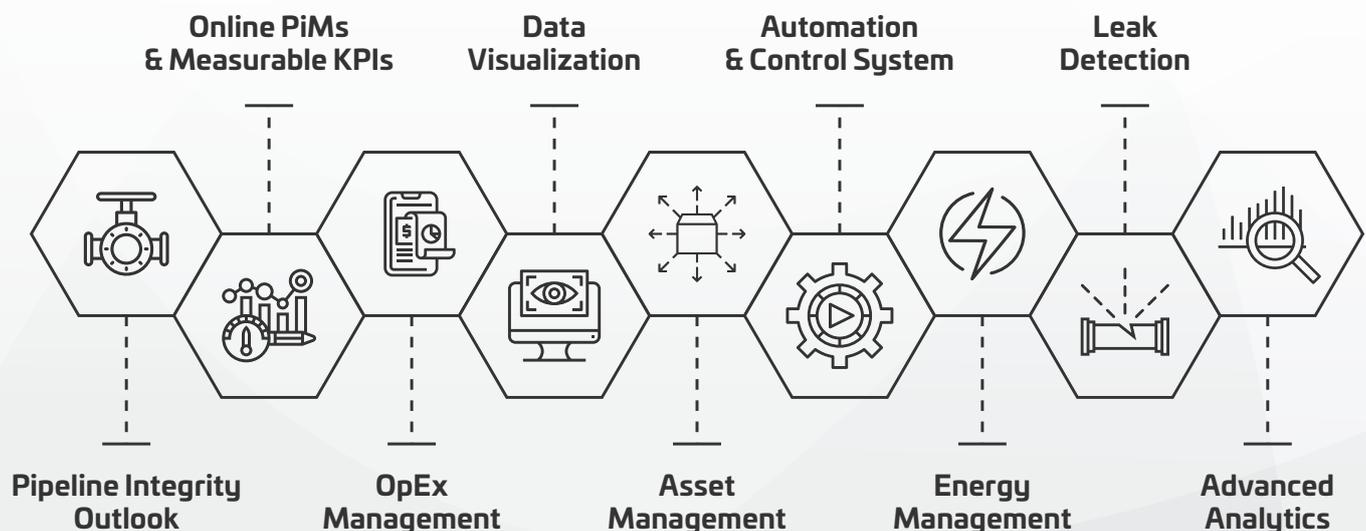
Create customized reports & dashboards. Produce a full range of actionable insights, assessments, and outlooks for every role.

### LEAK DETECTION

Plug the holes in your pipelines. Automatically detect new & existing leaks, and then create & monitor work orders.

### INTEGRATED SOLUTION

Combine all of the critical systems, processes, and actions you need to manage your pipelines in a single, unified platform.



## AI-DRIVEN WORKFLOWS

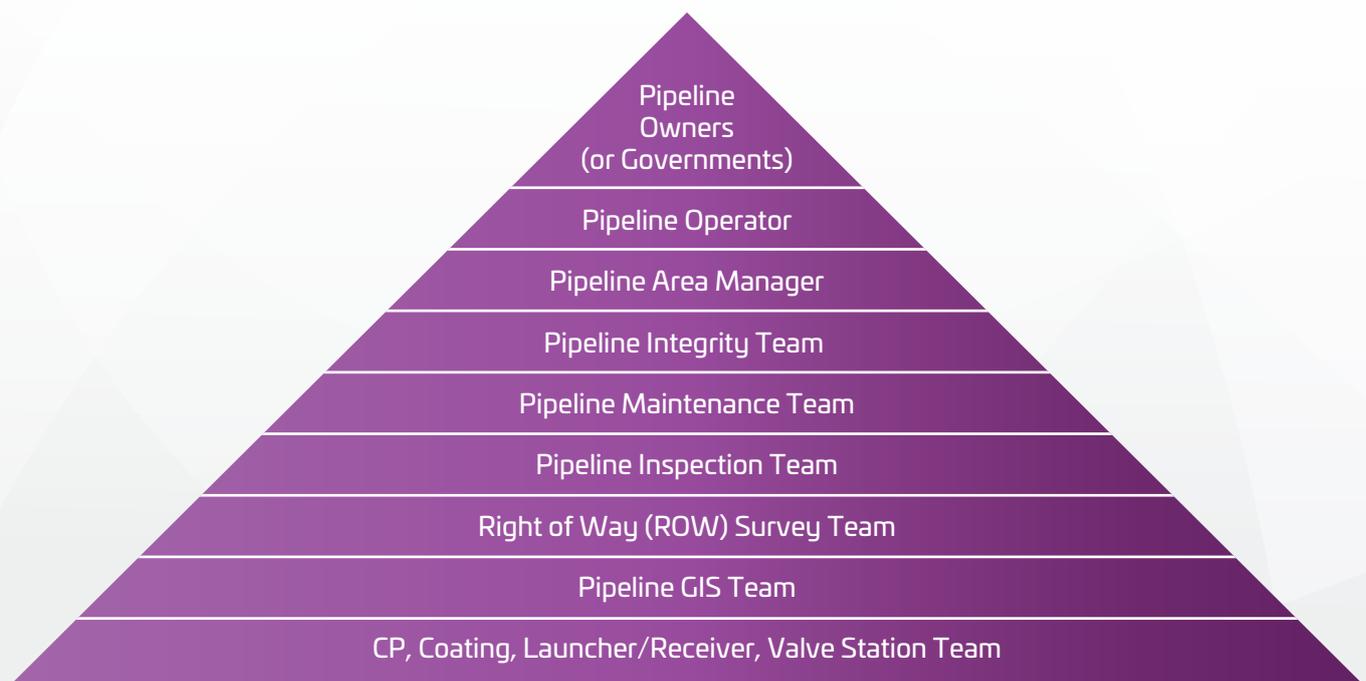
fathom Pipelines combines deep domain knowledge, software expertise, and big data analytics into a core set of workflows tailored to large-scale oil & gas operations. Our platform transforms legacy processes into dynamic, fully-digital workflows that integrate with real-time data sets to drive improved insights, decisions, and actions. fathom Pipelines offers each of these workflows through seamlessly blended desktop and mobile environments that can be accessed anytime, anywhere.

Our proprietary workflows include:

Pipeline Remaining Lifetime Calculation	Fluid Composition ACR	Pipeline Repair Module
OPEX Management Module	Failure Risk Reduction	Spare Parts Cost Reduction
Water & Scale Settlement Analyzer	Energy Management System	Instrumentation Drift Analyzer

## WHO fathom PIPELINES IS FOR

fathom Pipelines meets the needs of large-scale oil & gas production companies. Our platform cascades new capabilities and benefits through multiple roles and levels of the enterprise, including:



## TAKE THE NEXT STEP

### SCHEDULE A CONSULTATION

Meet with one of our experts for a no-obligation discussion, where we will:

- Review your existing systems and processes.
- Evaluate what's working and what could improve.
- Discuss how fathom™ could drive better outcomes.

### BOOK A DEMO

Let us walk you through a live demonstration of our Precocity platform, where we will:

- Show you the platform's look, feel, and usability.
- Preview our most relevant and unique functions.
- Brainstorm ways to customize Precocity to meet your needs.

### PARTNER WITH fathom™

Start a conversation to see if there's a good mutual fit between you and fathom™, including:

- Learn more about funding our next round of growth.
- Join our ecosystem of partners, allies, and gurus.
- Apply to work on a part-time, full-time, or contract basis.

**CONTACT US AT:** [contact@fathoms.io](mailto:contact@fathoms.io)

**LEARN MORE AT:** [www.fathoms.io](http://www.fathoms.io)

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## ABOUT fathom™

fathom™ is a technology firm that can accelerate, simplify, and enhance your digital transformation. fathom™ specializes in driving digital transformation for the entire industrial value chain, but applies a flexible, highly-customized framework that can adapt to the unique needs of any vertical, enterprise, or use case.

## HOW fathom™ OPERATES

fathom™ applies a new approach to solutions delivery—one that drives outcomes across the entire industrial value chain. fathom™:

**Is a Boutique Firm, that Delivers Enterprise Impact:** fathom™ can scale their people, processes, and products to handle enterprise-class projects, while keeping their core organizational structure nimble, creative, and responsive.

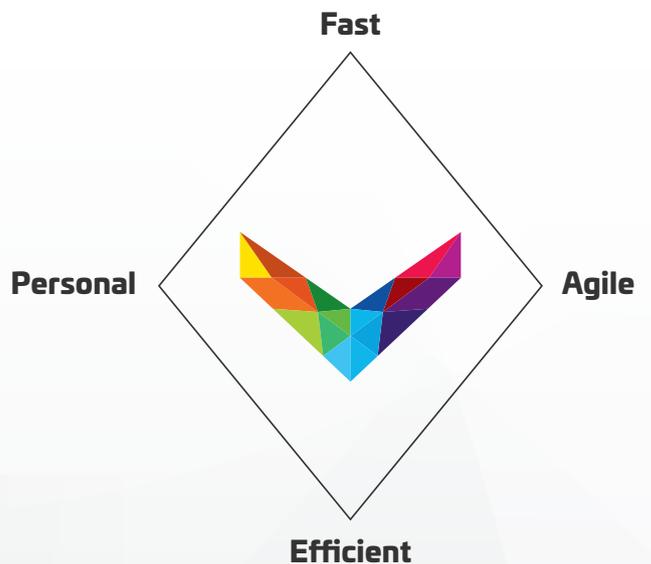
**Develops Highly-Personalized Solutions:** fathom™ customizes every solution to meet the unique needs of each client— adapting everything from the visualizations of individual dashboards to the structure of each solution’s underlying architecture.

**Applies Cross-Industry Best Practices:** fathom™ solves problems and captures opportunities for many different industries, and can create breakthroughs by taking the lessons learned from one industry and applying them to clients in others.

## PARTNERING WITH fathom™

Working with fathom™ is smooth, straightforward, and simple. fathom™ leverages a lean organizational model, making every engagement:

- Fast:** Work is completed without multiple rounds of validation across multiple departments.
- Agile:** Solutions can rapidly change course or incorporate new capabilities as needs evolve.
- Efficient:** Operating without corporate bloat, layers of complexity, or unnecessary overhead.
- Personal:** Executive teams provide direct access, and champion client projects—start to finish.



**SCHEDULE YOUR CONSULTATION:** [info@fathom.com](mailto:info@fathom.com)



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Minimize Downtime.  
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