



fathomTM

Wells

Upstream Productivity—AI-Driven

Increase Production
Reduce Costs
Minimize Downtime



THE CHALLENGE: UPSTREAM 4.0

Upstream leaders face critical new market & environmental challenges. A highly dynamic & complex production environment. Growing risk and safety regulations. Industry-wide disruptions being driven by new digital technologies.

At the same time, upstream systems are more challenging to manage than ever. They are increasing in complexity, integrating a wide range of emerging technologies, and going truly digital— all while facing new competitors, reduced operational budgets, and a greater need for optimized performance.

Upstream leaders must complete a successful digital transformation to overcome these challenges and uncover this moment of hidden opportunities.

THE SOLUTION: fathom WELLS

fathom Wells is the key to successful digital transformation for upstream leaders.

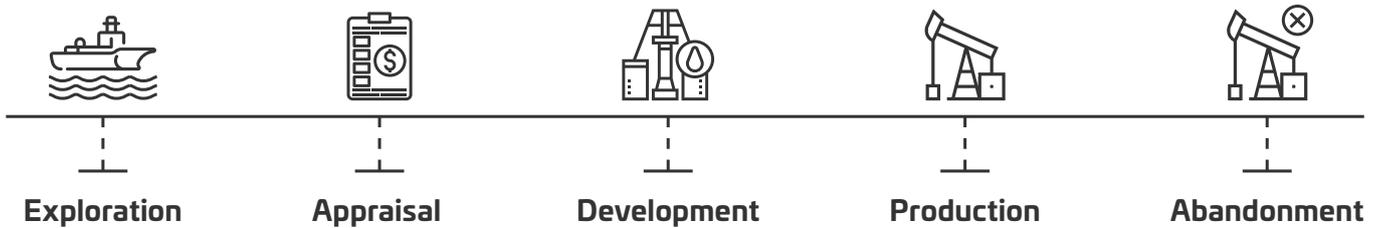
fathom Wells unifies each core element of upstream 4.0 in a single platform. It simplifies the inherent complexity of creating and managing a smart upstream value chain, and gives upstream leaders the tools to move through a faster, easier, and more complete digital transformation.

With fathom Wells, upstream leaders will:

- Improve the production rate and run life of upstream systems.
- Upgrade effectiveness of all wells, flow lines, and surface production.
- Identify the root causes and key drivers behind their failure events.
- Monitor negative events and predict impending NPT.
- Manage changing reservoir conditions.
- Unify oilfield headquarters with field sites through edge computing.
- Better understand and manage fluids— from reservoirs to GC.

WHAT fathom WELLS GIVES YOU

fathom Wells gives you an industrial IoT software platform that meets the unique needs of upstream oil & gas production. Our platform acts as a single, central hub for your digital transformation strategy and execution.



fathom WELLS: YOUR OUTCOMES

Using our platform, you will continuously digitize your entire upstream production system, monitor & diagnose every asset and piece of your system's infrastructure for failure events & inefficiencies, and deploy advanced analytics to continuously optimize performance.

With fathom Wells, you will gain:

IMPROVED PERFORMANCE

Our platform will help you increase both the efficiency and output of every stage of your upstream production. You will increase the production rate and run-life of your wells, flow lines, and surface production systems.

INCREASED EFFICIENCY

Our platform will streamline, automate, and optimize your existing operations. You will produce more with fewer invested resources, reduce the operational burden on your teams, and eliminate manual processes.

REDUCED FAILURES

Our platform will decrease the frequency and severity of failure events. You will identify the root causes and key drivers behind failure events, receive alerts about impending NPT, and fix issues before they escalate.

REMOVED UNDESIRABLES

Our platform will apply advanced analytics to increase the quality of your fluids. You will reduce the production of water, gas, sand, solids, corrosive products, asphaltenes, wax, emulsions, and other impurities.

SMARTER WORKFLOWS

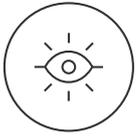
Our platform will give your operators the data and analytics they need, at the moment they need them. You will give your operators AI-driven workflows that provide data-driven recommendations for every task.

RAPID ADAPTATION

Our platform will give you tools to keep pace with your constantly changing environment. You will receive data-driven prescriptions to continuously evolve your operations to respond to changing reservoir conditions.

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.

- Intelligent well monitoring.
- Detect scenarios.
- Identify NPT.
- Proscribe proactive actions.



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.

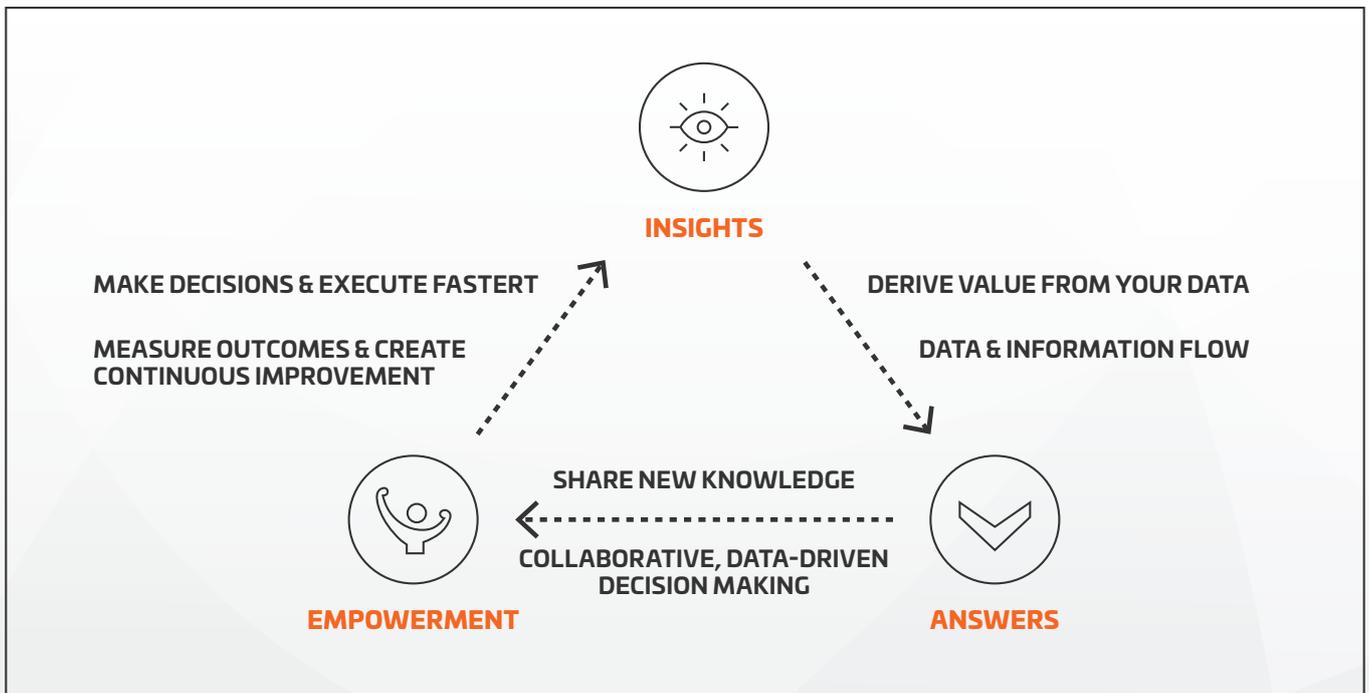
- Prevent losses.
- Adjust system parameters.
- Reduce failure events.
- Provide optimum rates.



EMPOWERMENT

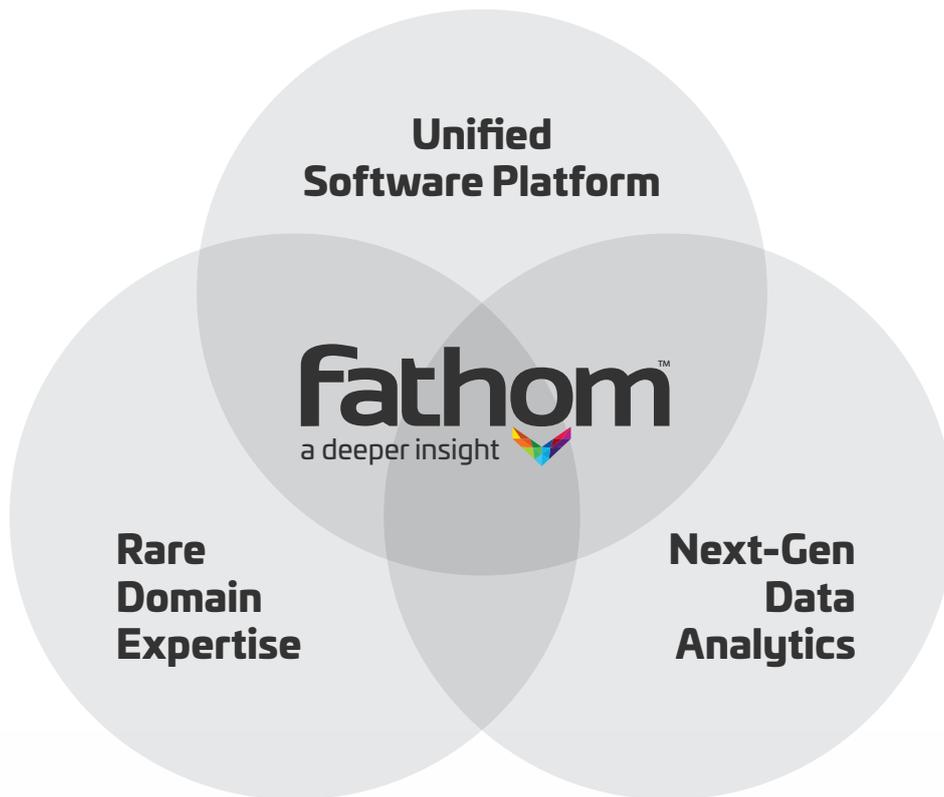
We accelerate your execution. We automate, streamline, and govern every critical action you must take to improve your KPIs. Every morning, when you open your portal, you will have everything you need to drive your performance— every insight, every answer, and every application, all from a single screen.

- Increase empowerment.
- Encourages collaboration.
- Improves QHSSE metrics.
- Accelerates execution.



fathom WELLS: A HOLISTIC SOLUTION

fathom Wells 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, funneling it into your solution, and producing clear data-driven insights & answers.

fathom WELLS: A MODULAR, CUSTOMIZED SOLUTION

We are able to customize every aspect of fathom Wells to fit hand-in-glove with your unique context. While the following features, workflows, and user roles provide a taste of what fathom Wells 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 WELLS: CORE FEATURES

AI-DRIVEN ANALYTICS

Produce continuous visibility, diagnostics, and predictive & prescriptive recommendations via intuitive visualizations.

ASSET MANAGEMENT

Make every asset, resource, and piece of equipment “smart”. Deploy IoT devices and sensors throughout your operational chain.

SIMPLIFIED COMPLEXITY

Manage your growing operations and installations. Streamline & rationalize your greenfield & brownfield flow conditions.

CONTINUOUS MONITORING

Keep an eye on your production processes & outputs. Collect, monitor, and analyse data from every element of your operations.

DATA-BASED PROCESSES

Deploy a unified platform to easily manage, rapidly execute, and constantly track you and your teams’ action items.

EDGE COMPUTING

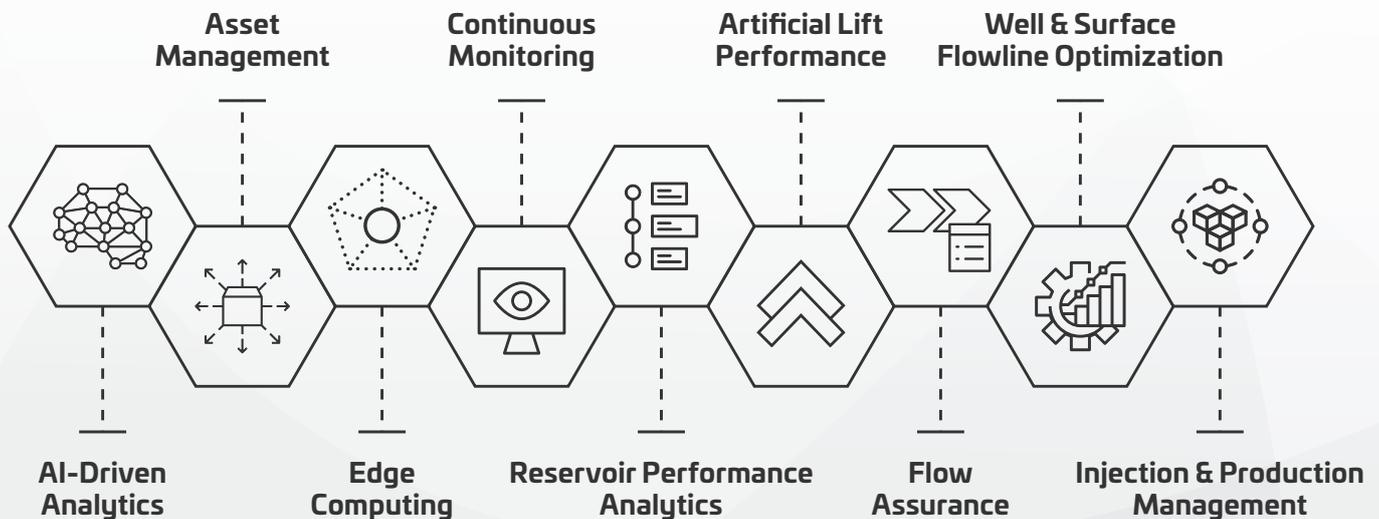
Connect your infrastructure and assets. Combine an intelligent, centralized oilfields hub with countless smart devices.

ROBUST INTEGRATIONS

Create a single “home” for your existing and planned investments, your production metrics, and your growing IoT sensor data.

HOLISTIC OPERATIONS

Optimize both onshore & offshore operations. Leverage a single platform to improve performance from pore to process.



AI-DRIVEN WORKFLOWS

fathom Wells 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 Wells offers each of these workflows through seamlessly blended desktop and mobile environments that can be accessed anytime, anywhere.

Our proprietary workflows include:

Artificial Lift Performance Optimization	Reservoir Performance Assets & Improvements	Surface Flowline & Facilities Network Optimization
Flow Assurance Backed by Production Chemistry Assessments	Well and Pipeline Integrity Assessment	Well and Flowline Uptime and Availability
Equipment & Process Failure Prediction and Prescription	Injection & Production Program Management	Production Forecasting, Optimization, and Allocation

WHO fathom WELLS 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

LEARN MORE AT: 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.

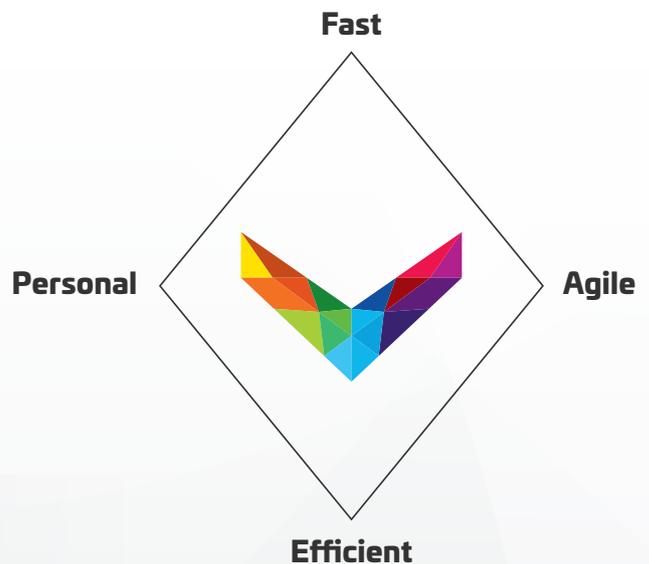
Develops Highly-Personalized Solutions: fathom™ customizes every solution to meet the unique needs of each client— adapting everything from the visualizations of individual dashboards to the structure of each solution’s underlying architecture.

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



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