

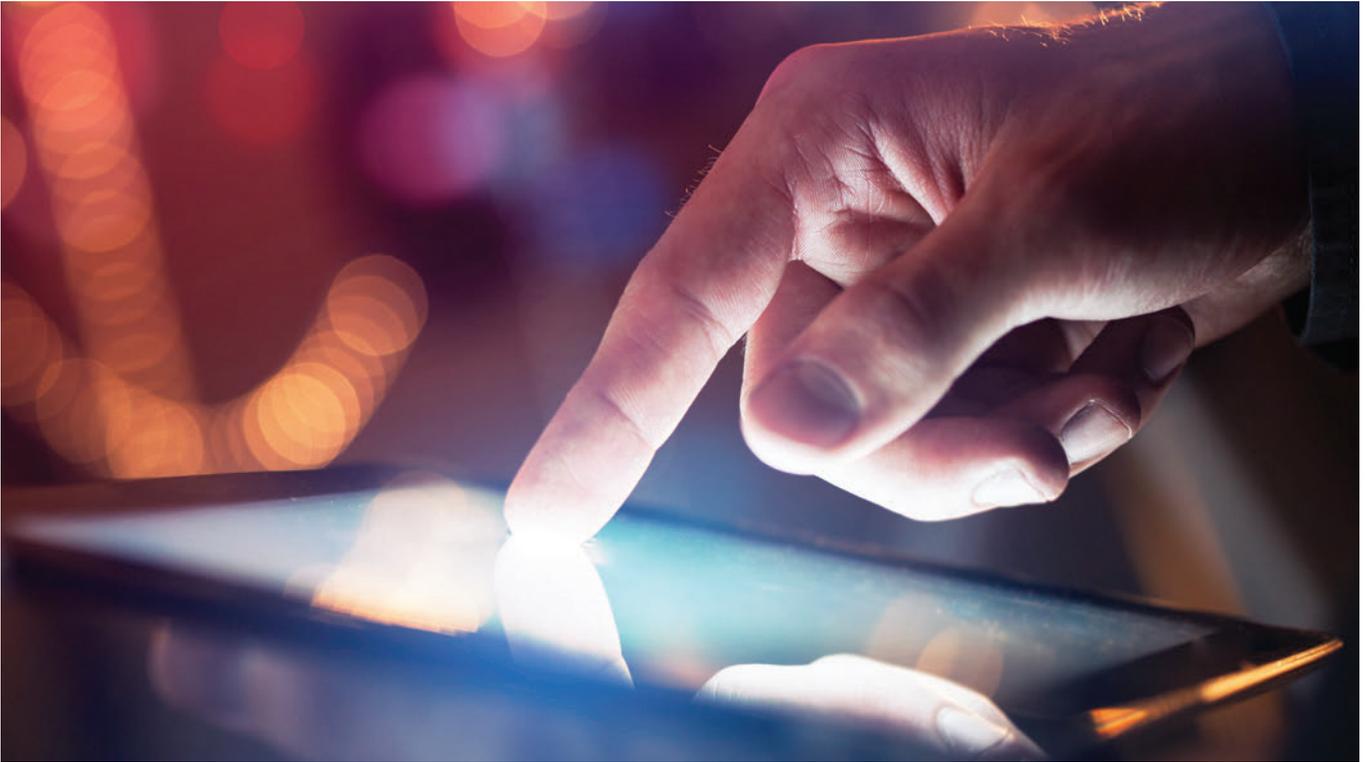


fathomTM

Precocity

A Unified Platform for Industry 4.0

Advanced Analytics
Intuitive Portals
Highly Customizable



YOUR CHALLENGE

You face a clear mandate— you must rapidly complete a full digital transformation of your operational environment, your tool sets, and your day-to-day processes.

To do so, you must overcome multiple challenges. Your operations generate a massive amount of data— and are due to generate even more as you deploy more sensors and IoT devices. Your organization is highly complex with many inter-dependent moving pieces. And you still rely on multiple legacy processes.

To overcome these challenges, and to complete your digital transformation, you are stitching together multiple individual, siloed technology solutions that do not communicate or collaborate well with each other.

In this working environment, it can be challenging to simply know what to do next when you sit down at your desk in the morning— let alone what large-scale steps to take to complete your organization's total transformation.

OUR SOLUTION: fathom PRECOCITY

fathom Precocity gives you the missing piece to your industrial digital transformation.

fathom Precocity is a single, unified industrial IoT platform that:

- Collects all of your operational data into a single hub
- Provides at-a-glance insight into your real-time performance metrics
- Applies advanced analytics to draw answers from your information
- Integrates multiple systems (including legacy platforms)
- Combines all of your day-to-day activities into a single portal
- Centralizes your team under a shared collaboration suite
- Reduces your organizational complexity into clear actions and KPIs
- Allows a faster, simpler, more complete digital transformation

fathom PRECOCITY: CORE BENEFITS

fathom Precocity gives you a single industrial IoT software platform to solve all of your biggest challenges. fathom Precocity is:

FAST

Our platform collects, analyzes, and pulls insights from all of your organizational data in real-time— while providing the tools you need to take rapid action from what you've learned.

ACCURATE

Our platform automates & eliminates error-prone manual processes— while providing everyone in your enterprise a single, complete, real-time source of organizational information to act from.

SIMPLE

Our platform takes in and distills all of your enterprise's sprawling complexity and translates it into clean, clear, easy-to-understand reports, visualizations, and immediate next steps.

RESPONSIVE

Our platform can rapidly adapt and extend its core features & functionality to meet your changing needs— and we constantly update it to better meet needs you don't even know you have.

INNOVATIVE

Our platform's technological foundation is constantly improving, and is built on top of cutting-edge technologies such as AI, ML, Big Data Analytics, and Micro-Service Architecture.

AUTOMATED

Our platform provides hands-free processes, procedures, and governances for your unique Operational Technology and Information Technology stacks.

EFFICIENT

Our platform streamlines your enterprise's core operations— while uncovering hidden inefficiencies throughout your entire operations and proscripting immediate corrections.

RELIABLE

Our platform finds and fixes sources of unplanned downtime before they cause failures— while operating at near-perfect uptime and zero latency across all of your global locations.

INTUITIVE

Our platform provides all of the tools, processes, and workflows you require to run your enterprise-wide operations, and packages them into a single, highly-visual, easy-to-learn interface.

SCALABLE

Our platform can rapidly scale its operations and capacity up or down depending on the growth or cyclical nature of your industry and enterprise— without compromising performance.

CONNECTED

Our platform can integrate with, and provide a single home for, all of your operational data, no matter its source— including devices, equipment, sensors, objects, platforms, and people.

PERSONALIZED

Our platform offers highly-configurable and customizable analytics, portals, and workflows through our AI, ML, and Big Data engines— it will adapt to fit hand-in-glove with your unique requirements.

WHO fathom PRECOCITY IS FOR

fathom Precocity adapts itself to meet the unique needs of every industry, organization, and individual role, leading to better decisions, faster execution, and greater insight into your environment.

To date, we have adapted Precocity to develop bespoke five bespoke solutions:



Upstream Oil & Gas production.



Midstream Oil & Gas production.



Cross-Industry Manufacturing Management.



Infrastructure & Municipality Management.



End-to-End Supply Chain Management.

HOW IT WORKS: OUR CORE FRAMEWORK

fathom Precocity gives you a scalable, flexible, and extendable industrial IoT platform. We built Precocity to bring our 3 Pillar Digital Transformation Framework to life.



INSIGHTS

Precocity unifies and captures all of your organization's data into a single hub, and gives you real-time visibility into your operations.



ANSWERS

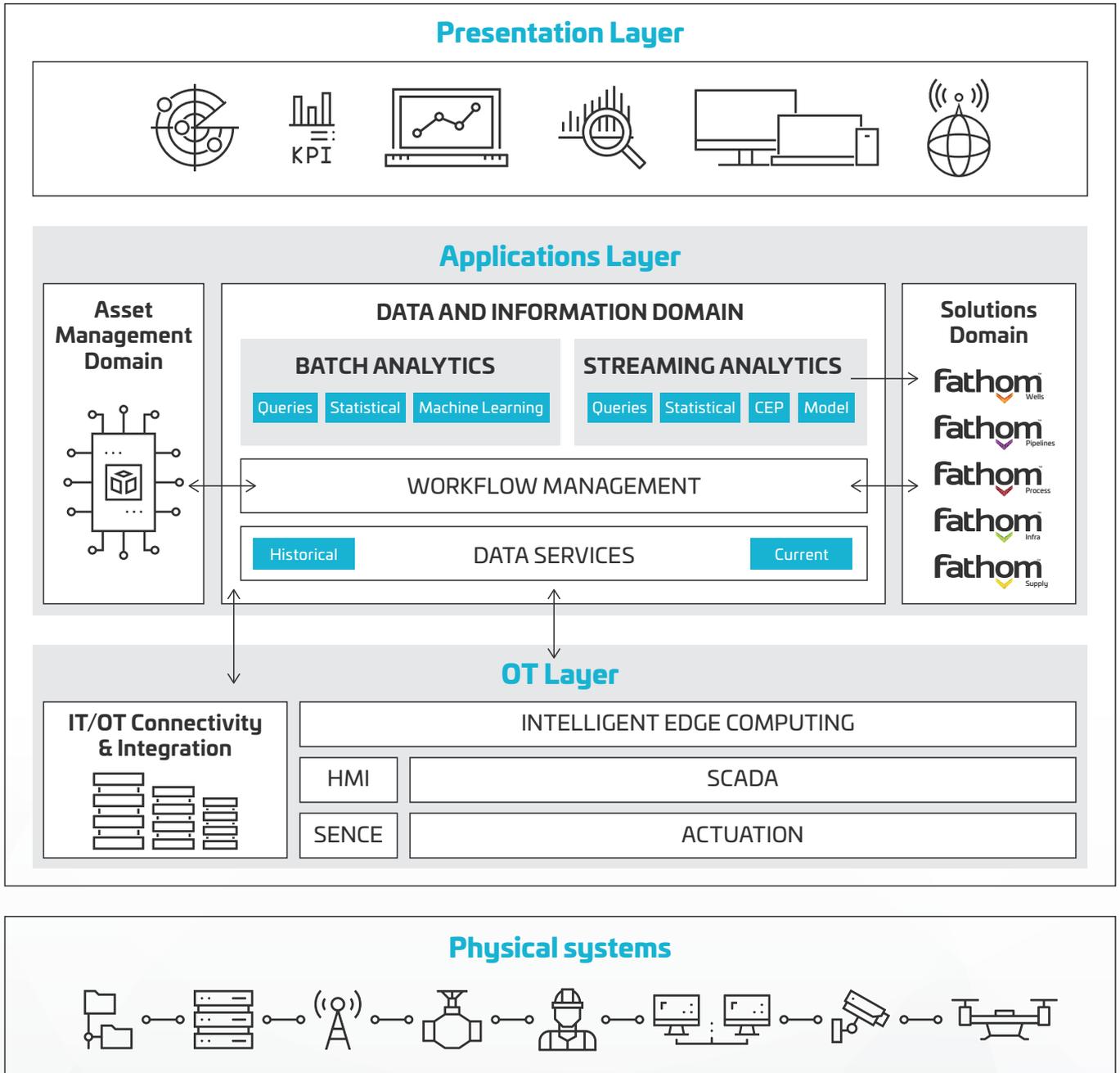
Precocity includes embedded algorithms that apply complex, real-time events processing and real-time KPI management to your data.



EMPOWERMENT

Precocity gives you & your workforce the tools they need to rapidly collaborate, make decisions, and execute critical tasks.

PRECOCITY: AT-A-GLANCE



fathom PRECOCITY'S 6 KEY COMPONENTS

We designed fathom Precocity as a horizontal, modular platform that can be adapted to solve every major challenge presented by Industry 4.0. We built our Precocity on top of six core components that meet the most fundamental digital transformation requirements, while still allowing a high degree of flexibility and customizability.

1

OT LAYER (AUTOMATION AND CONTROL)

Collects and presents complex operational data in an action-oriented, visual portal.

2

ASSET PERFORMANCE MANAGEMENT

Monitors and reports on asset performance, location, and real-time operational data.

3

WORKFLOW ENGINE

Gives non-technical users the tools to create their own custom workflows.

4

EDGE TO CLOUD COMPUTING

Deploys distributed computing to optimize speed, performance, and resource usage.

5

DATA SERVICES

Stores and processes data in a robust, scalable manner to ensure 100% uptime.

6

ANALYTICS

Applies advanced analytics and brings you to operational artificial intelligence ASAP.

KEY COMPONENT 1: OT LAYER (AUTOMATION AND CONTROL)

fathom Precocity gives you intuitive tools that make it simple to manage your complex environment. That work begins with our OT Layer component.

You will gain the ability to collect huge volumes of complex, high-velocity operational data from your OT stack, your IT stack, and your IoT sensors. You will then build vibrant, personalized, and sophisticated visualizations of your data that are accessible through your customizable portal. Every time you sit down to your portal, you will gain at-a-glance insight into your assets and operational environment, and know the exact right actions to take to improve their performance.

Our OT Layer gives you:



CONNECTIVITY

Pull data from multiple sources and devices, and view it from a single central portal.



SECURITY

Keep your data safe with layers of encryption and privacy identity management.



ALARMS

Create custom alerts that detect crises before they happen, and warn you in advance.



VISUALIZATIONS

Explore & analyze your data through visualizations with granular access rights.



AN HMI BUILDER

Design, view, monitor, and customize your visualizations of assets and environments.



HISTORIAN

Store large amounts of data and rapidly retrieve them at a moment's notice.



INTEGRATION

Seamlessly share data with systems and protocols that include, but are not limited to:

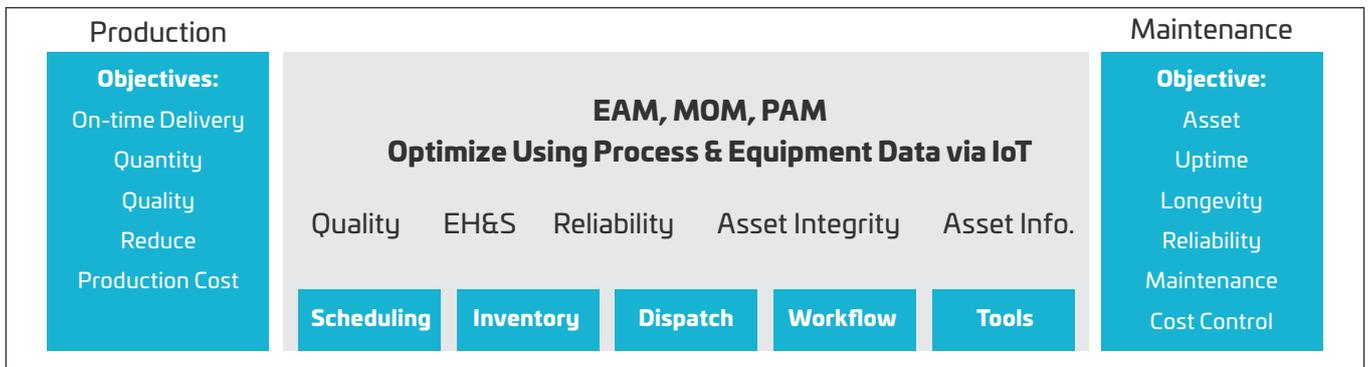


KEY COMPONENT 2: ASSET MANAGEMENT & TRACKING

fathom Precocity gives you the ability to monitor the performance, location, and condition of each of your assets— in real time.

Our Asset Management & Tracking gives you total visibility into each of your assets, and provides a suite of new capabilities. You will monitor the reliability and integrity of your assets, deploy advanced predictive maintenance algorithms to repair assets before they break, and develop a data-driven asset management strategy based around a few critical actions:

- Evaluating the health of each of your assets.
- Predicting how long each of your assets will perform safely.
- Mitigating any risk associated with each of your assets.



KEY COMPONENT 3: WORKFLOW ENGINE

fathom Precocity’s Workflow Engine lets you create apps and automated workflows that will execute many of your existing processes from start to finish in just one click.

We designed this component to be simple, intuitive, and easy-to-use— even by non-technical team members. With this component, you and your team members will be able to customize your fathom Precocity functionality on-the-fly, and create powerful automated processes that will reduce the time and effort to complete many of your day-to-day tasks.

 **NO CODING**
Users can create their own unique apps and workflows (even non-technical users).

 **CUSTOM WORKFLOWS**
Create, edit, and launch your 100% personalized workflows in just one click.

 **DRAG-AND-DROP**
Offers a simple, intuitive, and easy-to-use interface that anyone can master.

 **POWERFUL INTEGRATIONS**
Integrate with our existing tool set to streamline and automate your day-to-day tasks.

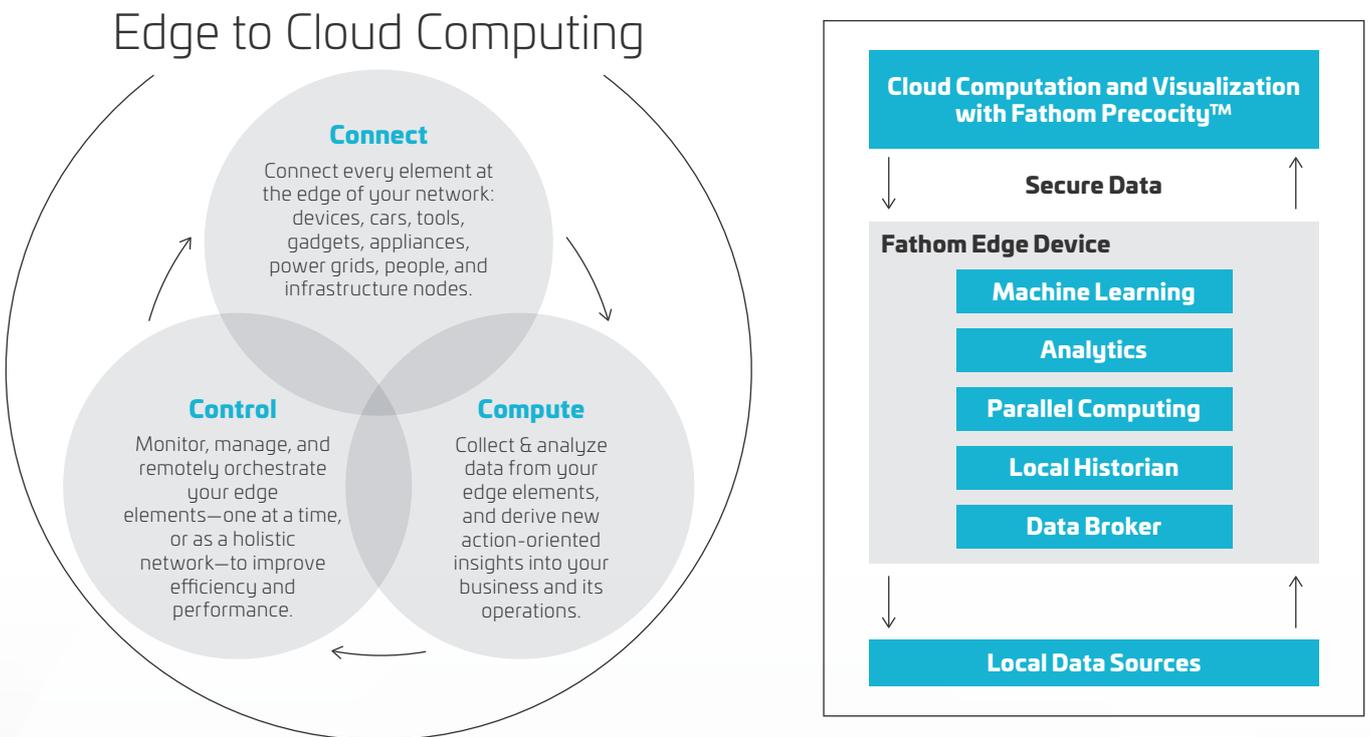
 **REPORTING & ANALYTICS**
No more need for third-party analytics tools— build and run your own custom reports.

 **NO SHRINK DEVELOPMENT TIME**
Instantly reduce your app and workflow development time from months to hours.

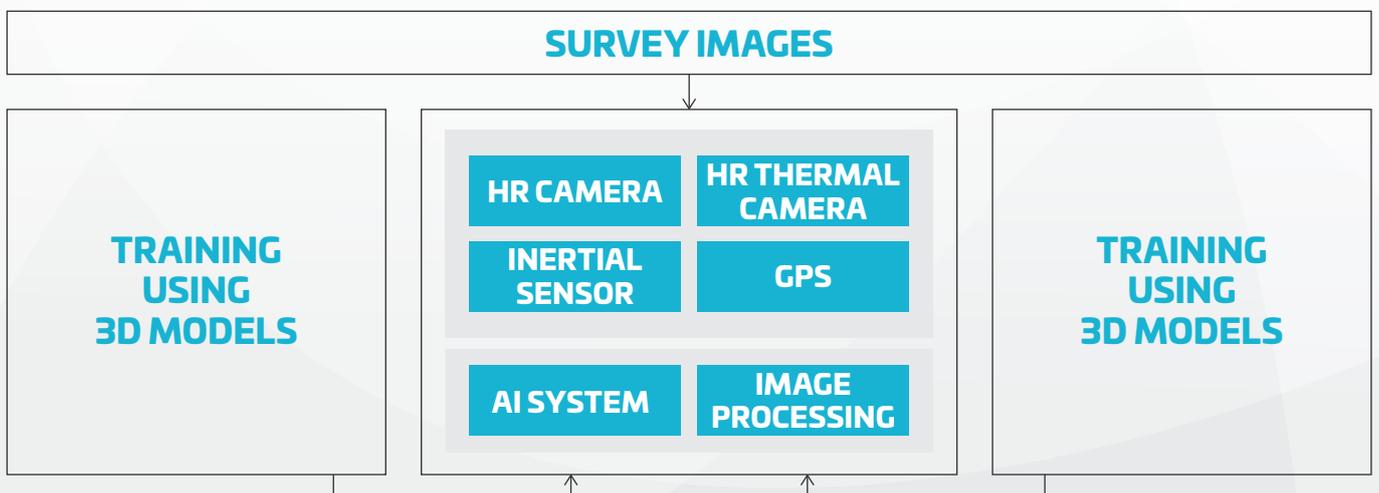
KEY COMPONENT 4: EDGE-TO-CLOUD COMPUTING

Industrial enterprises have expanded their footprint. They now deploy countless intelligent devices and sensors, spread across their local—and often global—operations.

fathom Precocity utilizes edge computing to collect, process, manage, and share all of this widespread data in the most efficient manner possible. Our platform dynamically deploys computational resources to produce optimal speed, performance, and efficiency for every one of your distributed devices. Our edge computing component also enforces governance to ensure data security and privacy, no matter how wide your network spans.



Engineering Fault Analytics & Detection - Workflow



KEY COMPONENT 5: DATA SERVICES

fathom Precocity stores and processes data in a robust, scalable manner to give you 100% uptime.

We built our Data Services component on robust architecture, and embedded a host of advanced techniques, to ensure all of your data will remain safe, uncorrupted, and available at all times (no matter where in the world you may be when you pull it up).

fathom Precocity will automatically scale your computing resources to meet your ever-changing needs— without any human intervention. Our platform will make sure your enterprise always utilizes the exact amount of resources it requires, and never experiences either downtime or unnecessary expenses.

Techniques we built into our Data Services component include:

IN MEMORY DATABASE

- Precocity collects large volumes of data from many different operational sources & formats in real time.
- Precocity processes this data to drive informed insights & actions towards your unique business needs.
- Precocity offers a lightweight, in-memory database platform that performs millions of operations per second, with sub-millisecond latencies.



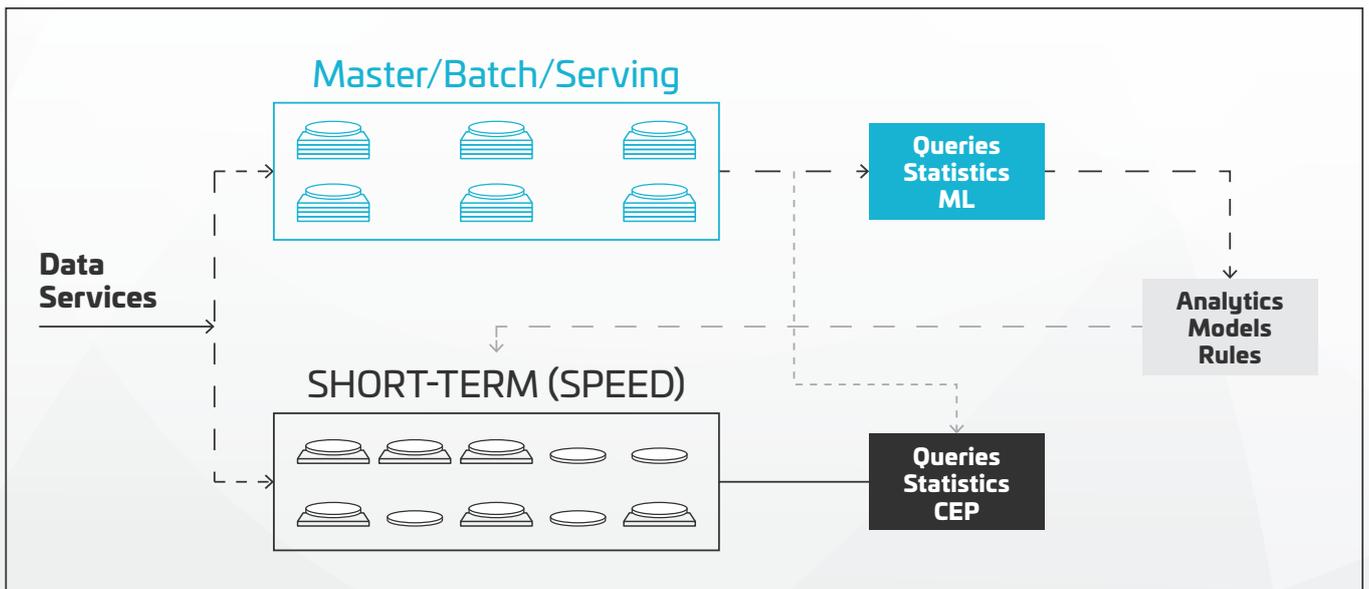
KNOWLEDGE GRAPH

Precocity takes all of your operational complexity, and organizes it into simple, intuitive, actionable visualizations.



DISTRIBUTED DATA MANAGEMENT

Precocity takes all of your operational complexity, and organizes it into simple, intuitive, actionable visualizations.



KEY COMPONENT 6: ANALYTICS

fathom Precocity can move an organization from low digital maturity to operational artificial intelligence and other advanced analytics in just seven simple steps.



STEP 1: DATA COLLECTION

We will collaborate to articulate your needs, and to define your data requirements. We will then collect, connect, and combine your data from every required source.



STEP 2: DATA PREPARATION

We will ensure all of your data is accurate and usable. We will perform cleaning, pre-processing, normalization, standardization, and scaling on all required data.



STEP 3: CHOOSING A MODEL

We will work with you to select your AI model(s). Precocity can perform Supervised, Unsupervised, and Reinforcement Learning, as well as Automated Machine Learning.



STEP 4: TRAINING

We will train your AI models with your data to deliver the best long-term results. We will utilize artificial neural networks and multi-intelligent agent systems.



STEP 5: EVALUATION

We will regularly evaluate your AI models' results, to continuously improve their performance, via proprietary model libraries, run trackers, and pull requests.



STEP 6: PARAMETERS TUNING

We will also drive continuous improvement via constantly refining the parameters of your AI models' algorithms, through multiple tools and techniques.



STEP 7: PREDICTION

We will rapidly get your models ready for on-premise deployment. The result: you gain a scalable, flexible, one-click AI-driven operational environment.

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™

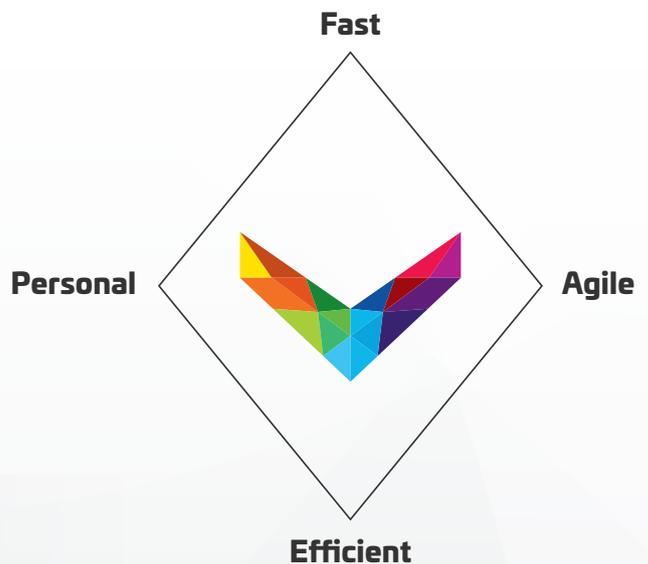
Working with fathom™ is smooth, straightforward, and simple. fathom™ leverages a lean organizational model, making every engagement:

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



Improve Production.
Increase Uptime.
Lower Risk.