



fathomTM

Infra

Infrastructure Management—AI Driven

Reduce Strain
Increase Sustainability
Improve Quality-of-Life



THE CHALLENGE: INFRA 4.0

Infrastructure leaders face mounting challenges. Crumbling assets. Growing populations and population density. Greater strain on services. Increasing energy usage and demands for sustainability. Rising tenant & citizen expectations.

At the same time, infrastructure 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 reduced budgets, siloed & fragmented systems, and unpredictable environmental conditions.

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

THE SOLUTION: fathom INFRA

fathom Infra is the key to successful digital transformation for infrastructure leaders.

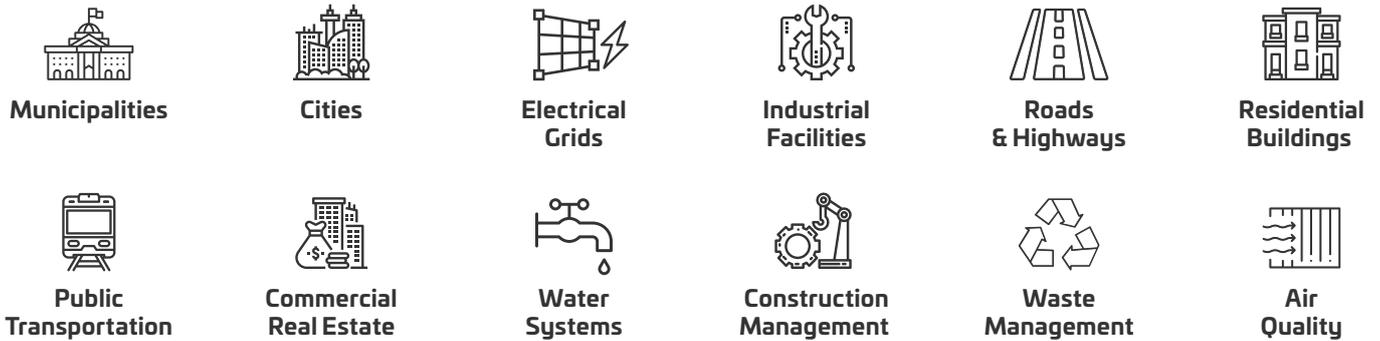
fathom Infra unifies each core element of infrastructure 4.0 in a single platform. It simplifies the inherent complexity of creating and managing smart infrastructure, and gives infrastructure leaders the tools to move through a faster, easier, and more complete digital transformation.

With fathom Infra, infrastructure leaders will:

- Automate key municipal, building, and energy system processes
- Deploy sensors to create smart infrastructure assets
- Weave AI-driven software through legacy construction
- Monitor & manage utility quality and consumption levels
- Upgrade existing infrastructure & new capital projects
- Build responsive ecosystems for customers, tenants, and citizens
- Visualize an entire city's operations from a single dashboard

WHAT fathom INFRA GIVES YOU

fathom Infra gives you an industrial IoT software platform that meets the end-to-end needs of infrastructure management. Our platform acts as a single, central hub for your digital transformation strategy and execution.



fathom INFRA: YOUR OUTCOMES

Using our platform, you will monitor & manage a wide range of infrastructure that include municipal, electrical, traffic, and water & waste management systems. Our platform also drives the management of commercial, residential, and industrial buildings.

With fathom Infra, you will gain:

ENERGY SAVINGS

Our platform will help you build more dependable energy systems with less downtime. You will optimize energy usage across your entire grid, exceed new efficiency standards, and adopt renewable energy sources.

ASSET MAINTENANCE

Our platform will predict when infrastructure assets will fail. You will monitor infrastructure assets for performance dips and other signs of approaching failure, rapidly supply new assets, and proactively patch broken systems before they break.

SAFER CONDITIONS

Our platform will protect your customers, tenants, and citizens from infrastructure failure. You will prevent accidents like traffic crashes, eliminate unauthorized access to facilities, and embed new security capabilities throughout entire cities.

END-TO-END VISIBILITY

Our platform will generate operational data from existing and new infrastructure systems. You will deploy networks of IoT devices and sensors, collect their data in a single platform, and generate advanced visualizations of your entire system.

EFFICIENT CONSTRUCTION

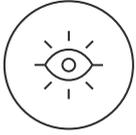
Our platform will give you digital modeling capabilities that reduce the costs and timelines for capital construction projects. You will rapidly evaluate design options, automate data analysis & reporting, and improve on-site productivity.

OPTIMAL USAGE

Our platform will provide far more productive use of your existing infrastructure. You will remove hidden inefficiencies & bottlenecks, reduce unplanned downtime, and create optimal performance conditions for your customers, tenants, or citizens.

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.

- Deploy sensors.
- Build smart infrastructure.
- Create smart energy grids.
- Monitor asset strain.



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.

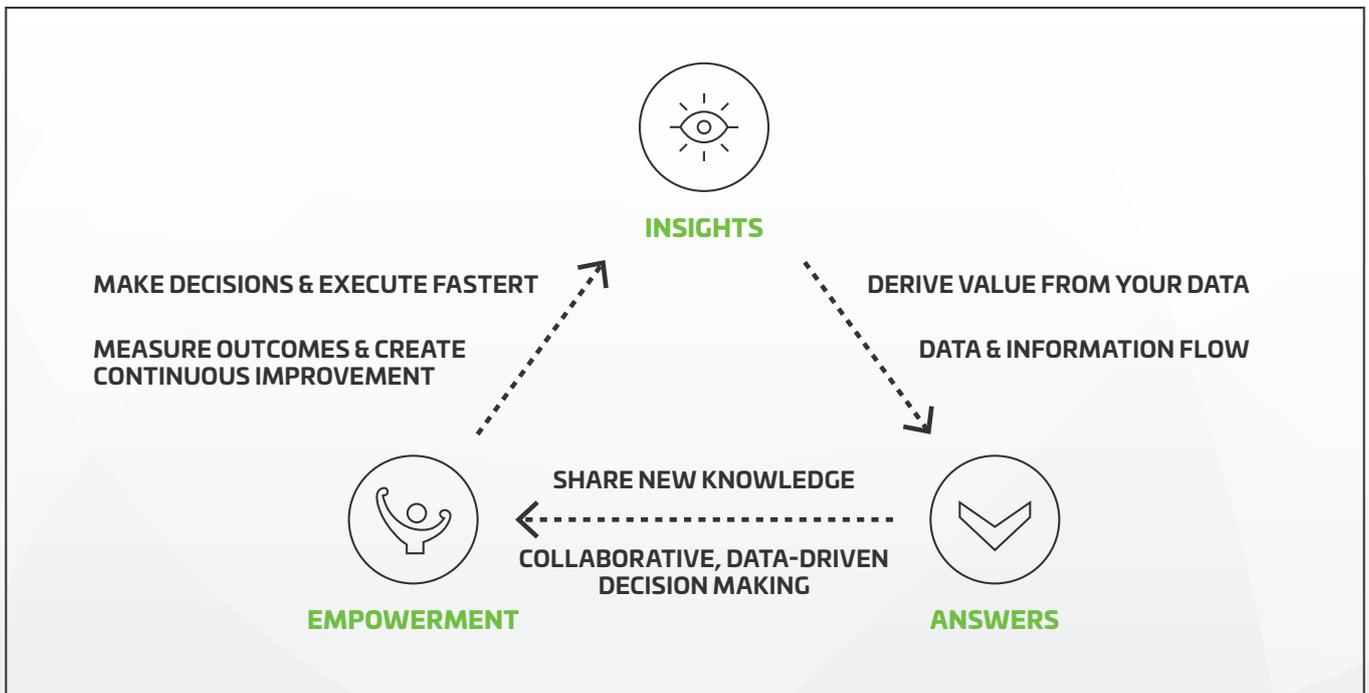
- Bring AI to legacy construction.
- Monitor utility quality & usage.
- Reduce energy consumption.
- Predict asset failure.



EMPOWERMENT

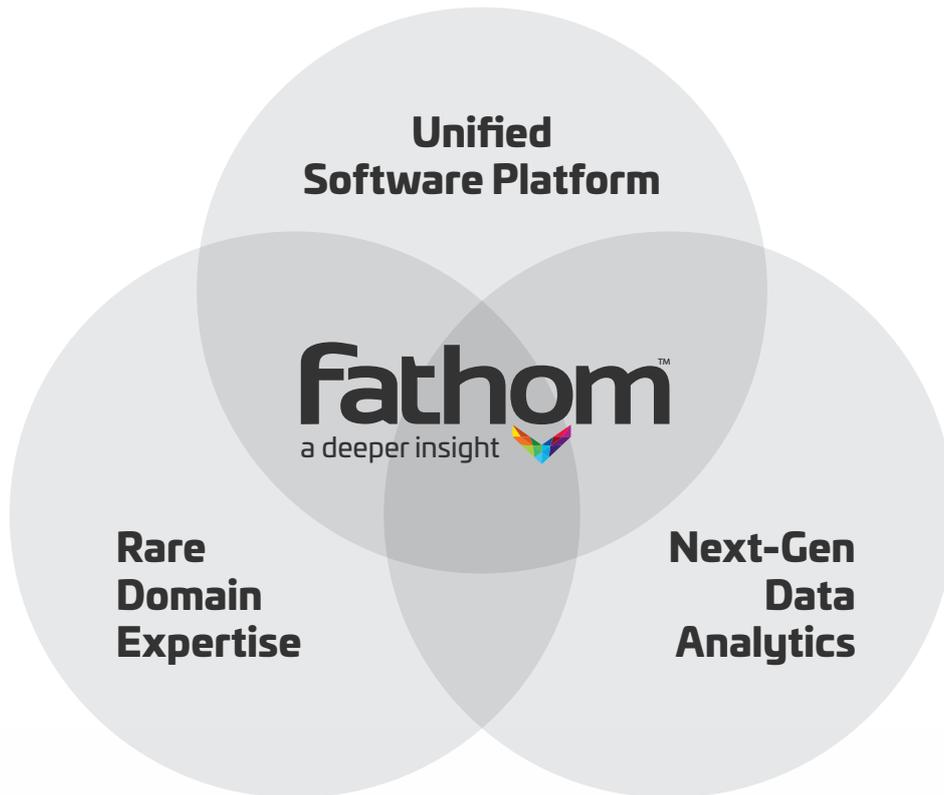
We accelerate your execution. We automate, streamline, and govern every critical action you must take to improve your KPIs. Every morning, when you open your portal, you will have everything you need to drive your performance— every insight, every answer, and every application, all from a single screen.

- Automate processes.
- Collaborate across silos.
- Reduce energy consumption.
- Manage from digital twins.



fathom INFRA: A HOLISTIC SOLUTION

fathom Infra 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 INFRA: A MODULAR, CUSTOMIZED SOLUTION

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

LEGACY INTEGRATION

Upgrade your infrastructure without additional capital expense. Layer our platform over your current hardware.

IOT CONNECTION

Build data-generating smart infrastructure. Deploy sensors and smart devices to build real-time data-driven visualizations.

ASSET TRACKING

Continuously monitor all building equipment. Improve performance, monitor for failure, and manage work orders.

SMART UTILITIES

Deploy sensors across your utility grids. Collect customer data from a wide range of utility types to streamline usage rates.

DIGITAL TWINS

Create a complete virtual environment for your grids, buildings, or municipality. Experiment with impact-free scenarios.

STANDARDIZED PROCESSES

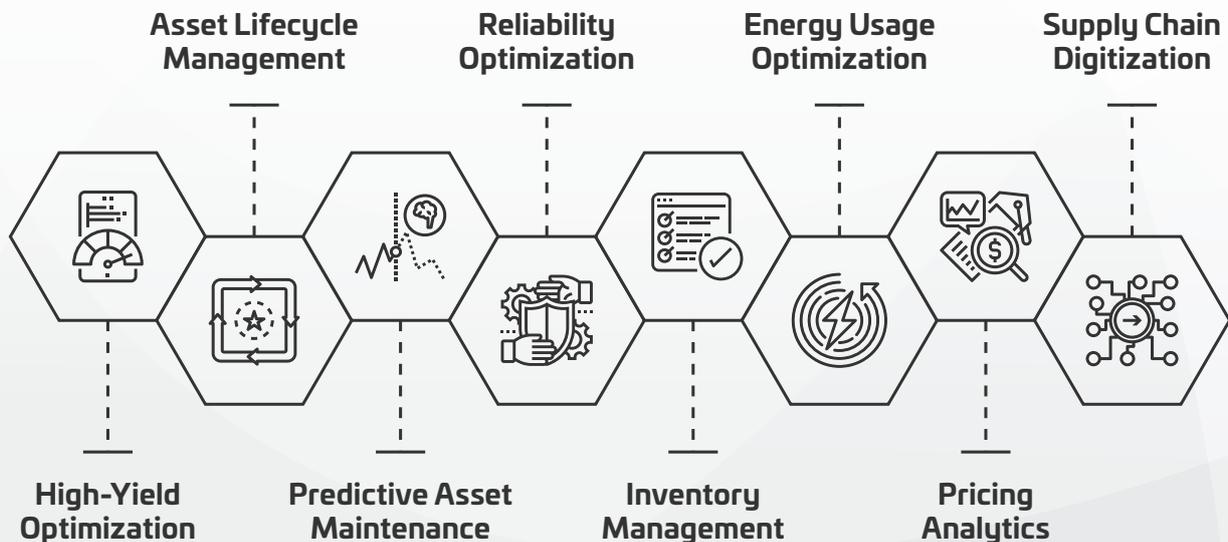
Create a unified system. Establish shared procedures across all of your properties, neighborhoods, districts, or grids.

SPACE MANAGEMENT

Develop granular control over your interior and exterior locations. Map how occupants utilize and move through your spaces.

ENERGY OPTIMIZATION

Prevent wasted energy consumption. Prevent leaks, stop theft, and downshift usage during off-peak time periods.



AI-DRIVEN WORKFLOWS

fathom Infra combines deep domain knowledge, software expertise, and big data analytics into a core set of workflows tailored to large-scale infrastructure systems. 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 Infra offers each of these workflows through seamlessly blended desktop and mobile environments that can be accessed anytime, anywhere.

Our proprietary workflows include:

Connected Streets Monitoring & Management	Waste Collection Tracking & Optimization	Public Security Sensor & Camera Allocation
Cloud-Based Construction Submittals & RFIs	Building Systems Monitoring & Management	Multi-Utility Usage Forecasting & Optimization
Automated Energy Conservation Modules	Off-Peak Energy Storage & Battery Management	Energy Consumption Tracking & Reporting

WHO fathom INFRA IS FOR

fathom Infra meets the needs of large-scale infrastructure systems. Our platform can adapt its capabilities and benefits to multiple infrastructure systems, that include but are not limited to:



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™

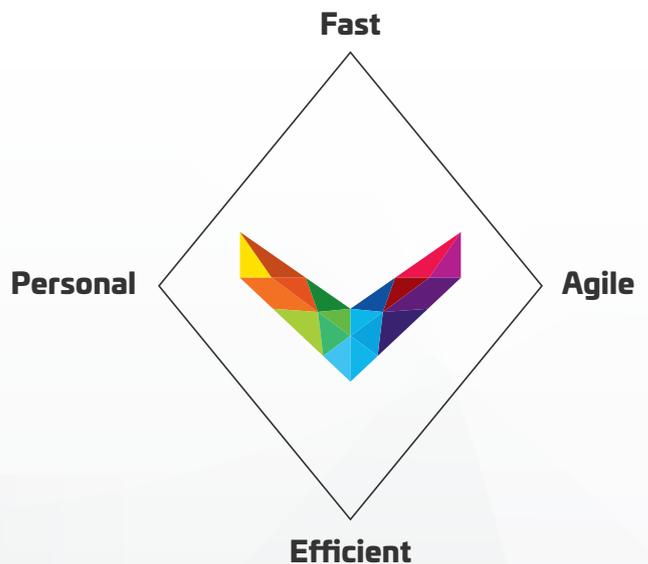
Working with fathom™ is smooth, straightforward, and simple. fathom™ leverages a lean organizational model, making every engagement:

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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