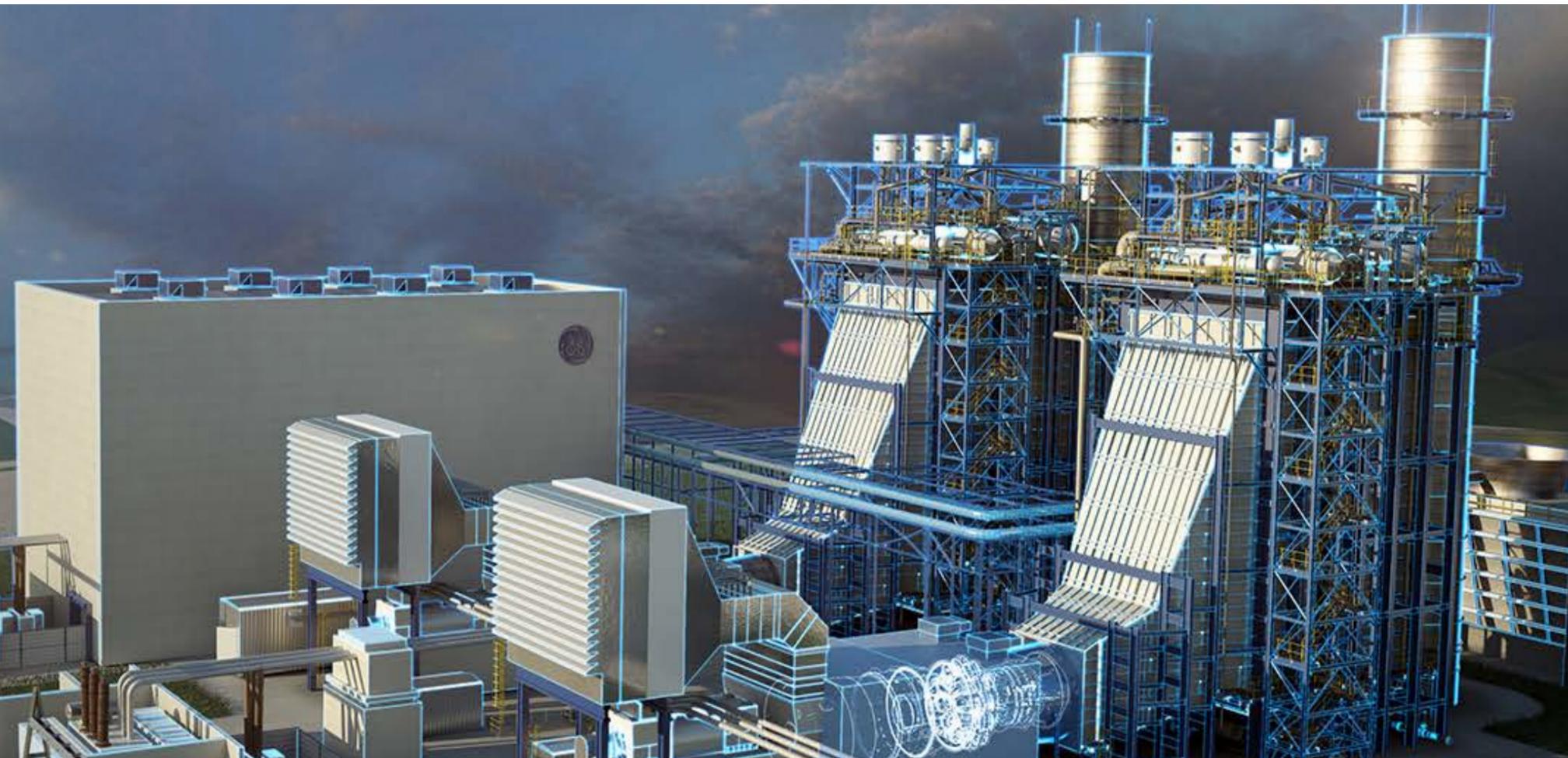




Become a Digital Industrial Company

GE Digital's portfolio overview

The operating climate for industrial companies has never been more challenging. Consumer products manufacturers are faced with cost volatility, shrinking profit margins, and constantly changing buyer preferences. Heavy equipment manufacturers are challenged with compressed cycle times, increased price pressure, and demands for customization. Oil and gas companies face intense pricing pressure, knowledge attrition, and growing environmental scrutiny. As a global industrial leader, GE faces these same challenges every day.



In response, GE Digital is reimagining how industrial organizations, including GE companies, operate plants and deliver products—using data as the fuel and advanced analytics as the growth engine. We embrace the vision of the Industrial Internet and the promise of driving disruptive, positive changes across the industrial landscape.

“GE is truly on the path to digital industrial transformation. With the announcement of GE Digital as a separate software division, Predix as platform as a service in the cloud, and ready-to-roll asset performance management, this manufacturing company is evolving. The company has all the elements of digital industrial transformation that IDC believes are essential to success. A commitment from CEO Jeff Immelt, a reworking of the operating models, a focus on information, and a refreshing view toward sourcing work with partners and developers are in the mix.”

The Industrial Internet changes everything

Imagine a world where:

- Your factories are brilliant—giving you real-time visibility and control over all manufacturing processes
- Your power plants replace scheduled maintenance with just-in-time, predictive maintenance to prevent unplanned outages
- Your industrial data, control networks, and applications are protected from malicious software threats—automatically and continuously
- Your analytic capabilities are infinite, and can be customized using open tools and pluggable software services—allowing you to minimize downtime, optimize performance, and react to market changes with flawless agility

This is the Industrial Internet. It is here now. It is powered by GE's Predix, the industrial application platform. It will change the face of global industries for generations to come.

Services to accelerate your journey

While this is an exciting time for opportunity and growth, the Industrial Internet can also bring on new challenges, questions, and uncertainty. Specifically, how do you get started? Or, what steps do you need to take to be successful? No matter where you are on your journey, GE Digital has the right [services](#) offering for you.

Use data-driven insights for optimized performance

The starting point for your Industrial Internet journey is getting connected to build “digital twins”—digital models of your machines and processes. Sensors transmit data from your industrial assets securely to edge devices, on-premises servers, GE's Predix, or a combination thereof based on your strategy. You can then use GE Digital's software suites for Asset Performance Management (APM), Brilliant Manufacturing, HMI/SCDADA, and Cyber Security to leverage insights that allow you to optimize your assets and operations. You can also create custom analytic applications by assembling pre-built Predix software microservices and building new Predix microservices from scratch.



Predix

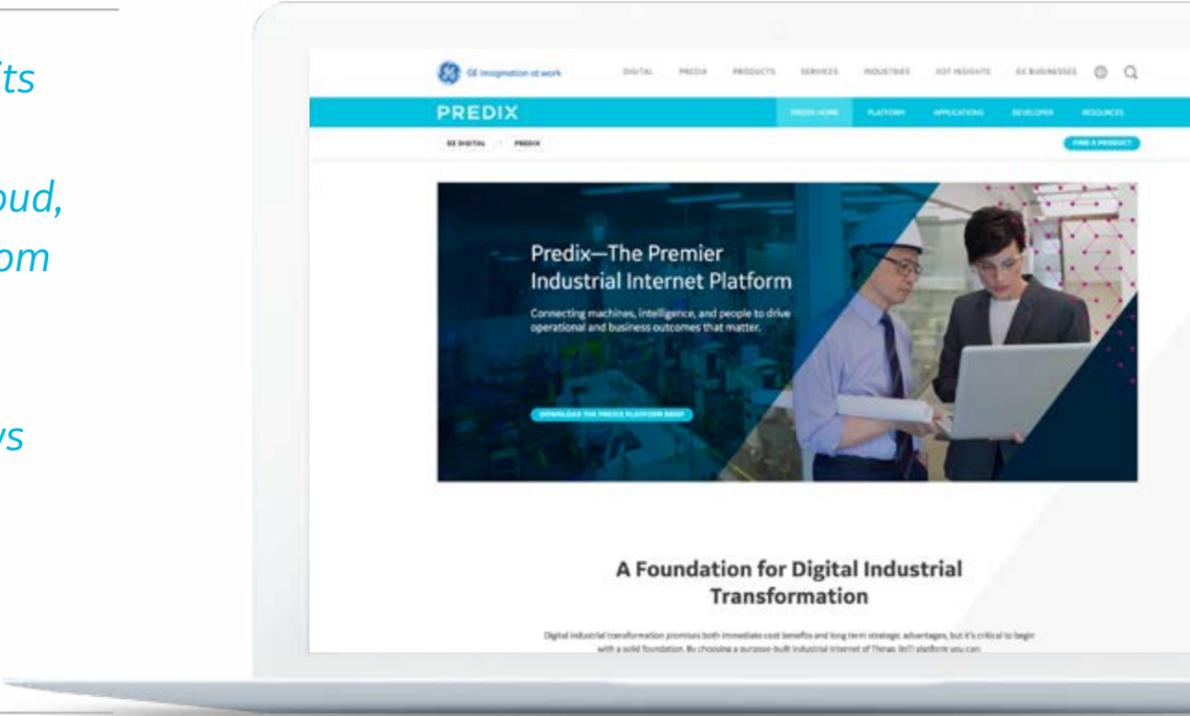
Designed to address the complex needs of industrial organizations

Created by GE to help transform its business, [Predix](#)—the platform for the Industrial Internet—is the only solution built by industry for industry. From the edge to the cloud, Predix turns data and intelligence into actionable insights, and employs the latest innovation, including digital twins, to optimize assets and operations. All this is supported by a robust ecosystem of partners and independent software vendors (ISVs) to accelerate the development of apps that enable digital industrial transformation.

Industry is reinventing itself for the digital age, and Predix makes it possible.

“Like GE, Pitney Bowes is in the midst of its own physical and digital transformation. With APM apps running on the Predix cloud, we're able to extract and analyze data from our assets faster than ever, and use that insight to drive real business outcomes for Pitney Bowes and its clients. GE knows industrial machines and related data analytics better than anyone.”

Roger Pilc, Chief Innovation Officer, Pitney Bowes



Connect your data

To help accelerate industrial transformation, Predix connects every facet of your enterprise and empowers your team with unparalleled visibility and insights. It helps illuminate new business models and revenue streams.



Get insights

With Predix, you can revolutionize your business with the ability to integrate assets and distribute knowledge from edge to cloud. Predix helps you orchestrate complex industrial data, seamlessly.



Optimize your operations

Predix enables you to build understanding to boost performance and gain insights through sophisticated modeling. You can envision the past, present, and future with digital twins—helping you to fully optimize your assets and operations.

Asset Performance Management

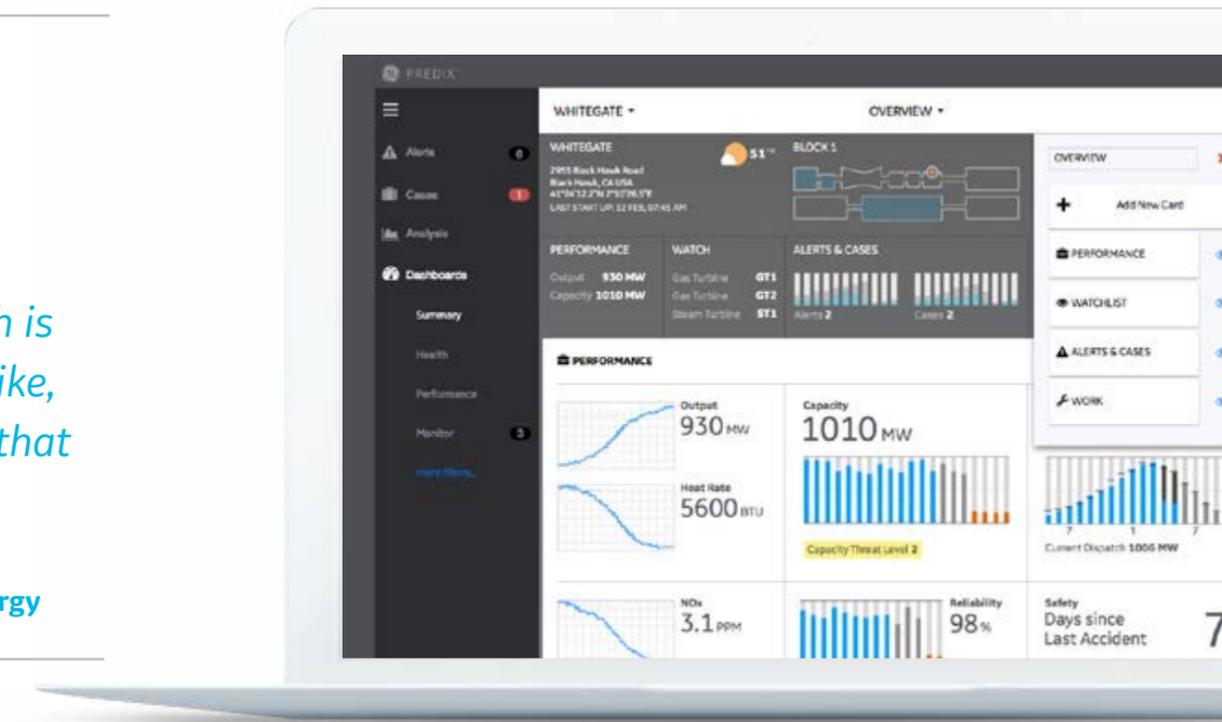
Enabling intelligent asset strategies to optimize performance

GE Digital's [Asset Performance Management \(APM\)](#) suite helps asset-centric organizations drive safer and more reliable operations while facilitating optimal performance at a lower sustainable cost by enabling **intelligent asset strategies**.

APM is capable of working across many types of assets (rotating, non-rotating, and process), OEMs (GE and non-GE equipment and machinery), and industries, across the plant and across the fleet. Built on GE's Predix, APM manages collaborative workflows between experts and operational teams. And, it *balances cost, availability, and risk*.

“APM is learning every time we start the plant, every time we stop the plant, every time we change load, every time we change a fan on and off. Our entire plant is being monitored by APM, which is learning what a healthy system looks like, and warning us when we deviate from that healthy system status.”

Declan Lynch, Deputy Project Manager, Bord Gáis Energy



Connect your data

Machine & Equipment Health from GE Digital, part of our APM suite, allows for the secure collection, intermediate storage, backhaul, and administration of time-series and enterprise data from external sources to edge/on-premises and cloud-based APM applications—one time during setup or continuously.



Get insights

Leveraging advanced data-management and predictive-analytic tools, APM unlocks the power of your data to reveal critical insights. With APM, you get an enterprise-wide and risk-based view of the impact of asset performance management activities to help you make the best decisions.



Optimize your operations

Asset Strategy Optimization (ASO) from GE Digital, part of our APM suite, helps develop, implement, maintain, and optimize intelligent asset strategies to help you make the best decisions and maximize overall asset and operational performance. These strategies also allow you to continuously improve and learn, automatically. ASO can increase asset reliability and availability, reducing maintenance costs while balancing equipment risk profiles.



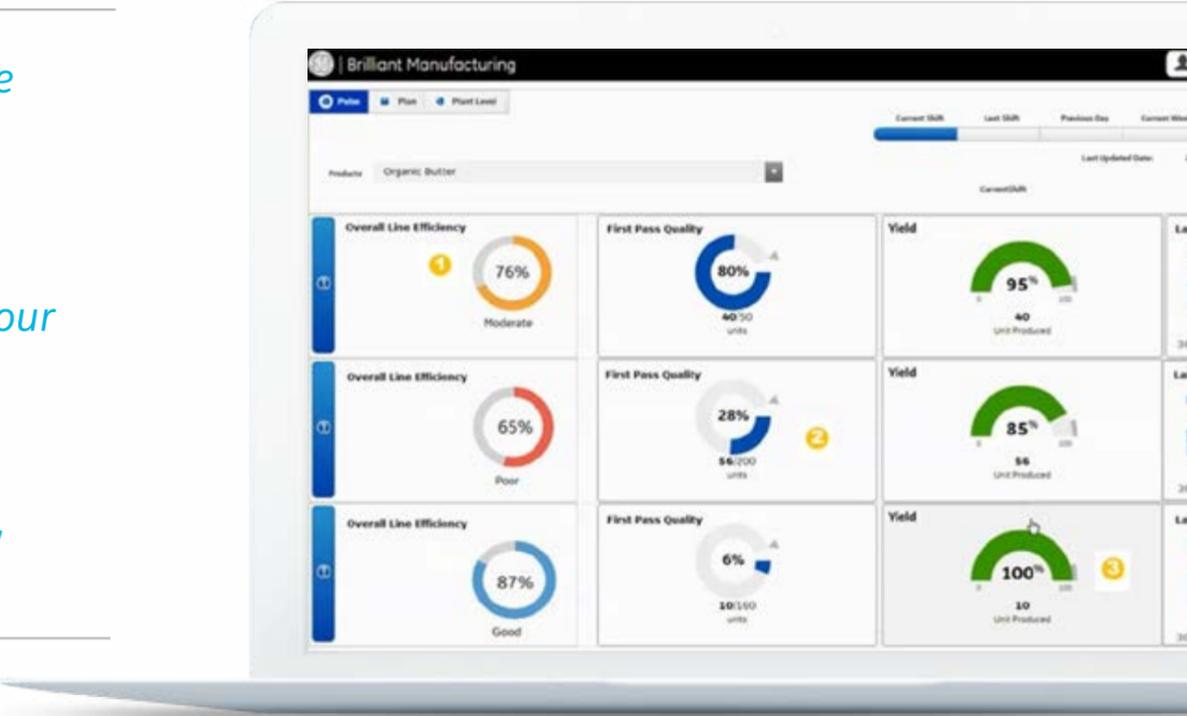
Brilliant Manufacturing

It's time for the smart factory

GE Digital's [Brilliant Manufacturing](#) is a suite of software and services that helps manufacturers optimize plant operations and compress cycle times between market demand and production. Brilliant Manufacturing applications can be securely deployed on-premises, on GE's Predix industrial cloud, and in hybrid configurations. Numerous manufacturing companies, including GE, are actively using Brilliant Manufacturing software to reduce machine downtime, improve quality, and optimize operational efficiency.

“GE Digital’s Brilliant Manufacturing suite has enabled significant reductions in unplanned machine downtime resulting in higher plant efficiency. As part of our Digital Thread strategy, we will increase our machines and materials connectivity by 400% in the coming year.”

Bryce Poland, Advanced Manufacturing Brilliant Factory Leader, GE Transportation



Connect your data

Brilliant Manufacturing gives you a single, secure way to gather data from a wide variety of assets and systems, creating a comprehensive and validated data repository. Brilliant Manufacturing applications then transform machine data into actionable production efficiency metrics so that plant managers can reduce unplanned downtime, maximize yield, and increase equipment utilization.



Get insights

Brilliant Manufacturing includes powerful applications for managing production operations—including the control of product flows between equipment—generating product genealogy reports and scheduling changes to reduce excess inventory. Applications provide full traceability of products through every step of the manufacturing lifecycle.



Optimize your operations

Brilliant Manufacturing integrates production data with information from ERP and PLM systems, allowing factories to ship higher quality products while reducing the cycle times and costs for new product introductions. Brilliant Manufacturing enables manufacturers to track each serialized item that moves through the production process, and view the information needed to optimize routing decisions. Manufacturers are able to understand real-time sequence requirements and proactively manage the plant floor when a sequence is broken.



HMI/SCADA

World-class automation software for the smart operator

GE Digital's [HMI/SCADA](#) suite helps customers in manufacturing and infrastructure industries design and implement real-time supervisory control applications. Trusted by thousands of industrial organizations, GE Digital's proven HMI/SCADA suite is used in wide-ranging applications from discrete, hybrid, and continuous manufacturing to utility distribution, generation, and extraction. These applications leverage the latest Efficient HMI, mobility, and asset model technologies and can be deployed in a variety of architectures, from a single system on an individual packing machine or remote substation to complex central and distributed network architectures that span multiple factories and geographies.

“Using GE Digital software has enabled us to demonstrably increase productivity and significantly improve the process quality. In addition, the software facilitates the daily work of our staff.”

Martin Siegenthaler, Process Automation and System Support, Blaser Swisslube AG



Connect your data

GE Digital's HMI/SCADA software enables fast acquisition and consolidation of data directly from machines—and works across a variety of OEMs—via an extensive suite of I/O drivers and data processing capabilities. Each driver is rigorously tested in our labs, with partners, and in the field, ensuring that your device connections will be fast and reliable.



Get insights

HMI/SCADA applications include a robust, scalable SCADA engine that drives deep visibility into every aspect of your industrial processes. Our HMI visualizations, alarming, and trending provide advanced situational awareness that allows your operators to supervise work across machines, in the control room, and throughout your enterprise.



Optimize your operations

HMI/SCADA enables fast, intelligent monitoring and control by giving operators advanced tools for detecting problems before they occur. HMI/SCADA applications provide a window into your operations cycle—end-to-end—integrating complex processes, analytics, and control into a single pane of glass. Optimization of the entire operator experience reduces downtime, waste, setups, and rework.

OT Cyber Security

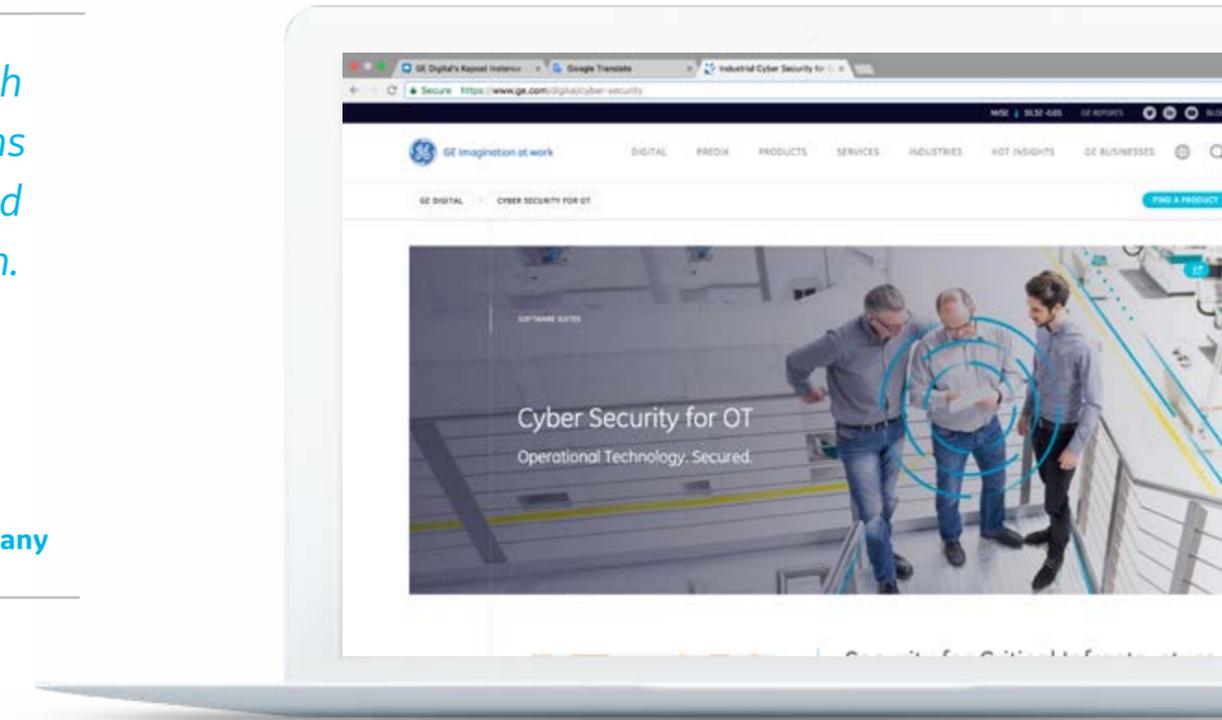
Get on the path to operational resilience

GE Digital's Cyber Security solutions and services improve the security posture of both device manufacturers and system operators.

Our award-winning OpShield solution was developed to inspect network traffic and enforce policies to protect industrial control systems. OpShield monitors and blocks malicious activity and misconfiguration to ensure highly available operations and secure productivity.

“We are very pleased to be working with GE Digital to protect our critical systems around the world. They have unmatched expertise and experience in this domain. GE Digital's products and services are trusted and integrated throughout our global operations.”

Ted Angevaare, Global DACA Manager, Shell Oil Company



Connect your data

OpShield is easy to install into existing environments—no network re-engineering or downtime is required. It automatically identifies traffic on the industrial network and enforces network security policies unique to OT environments. In addition, GE Digital provides a variety of cyber security assessment services aimed at identifying network vulnerabilities and improving OT security.



Get insights

OpShield's centralized management console provides a graphical interface that allows system operators to easily deploy security policies and vulnerability signatures. It also offers a network-wide view of alerts and attacks. OpShield gives operators visibility into network traffic and applications across your connected production systems.



Optimize your operations

OpShield provides breakthrough drag-and-drop virtual zoning for simple, non-invasive network segmentation. In addition, security administrators can easily define policies that whitelist specified traffic. Using OpShield, organizations can optimize the security of OT applications, networks, and processes.



ServiceMax

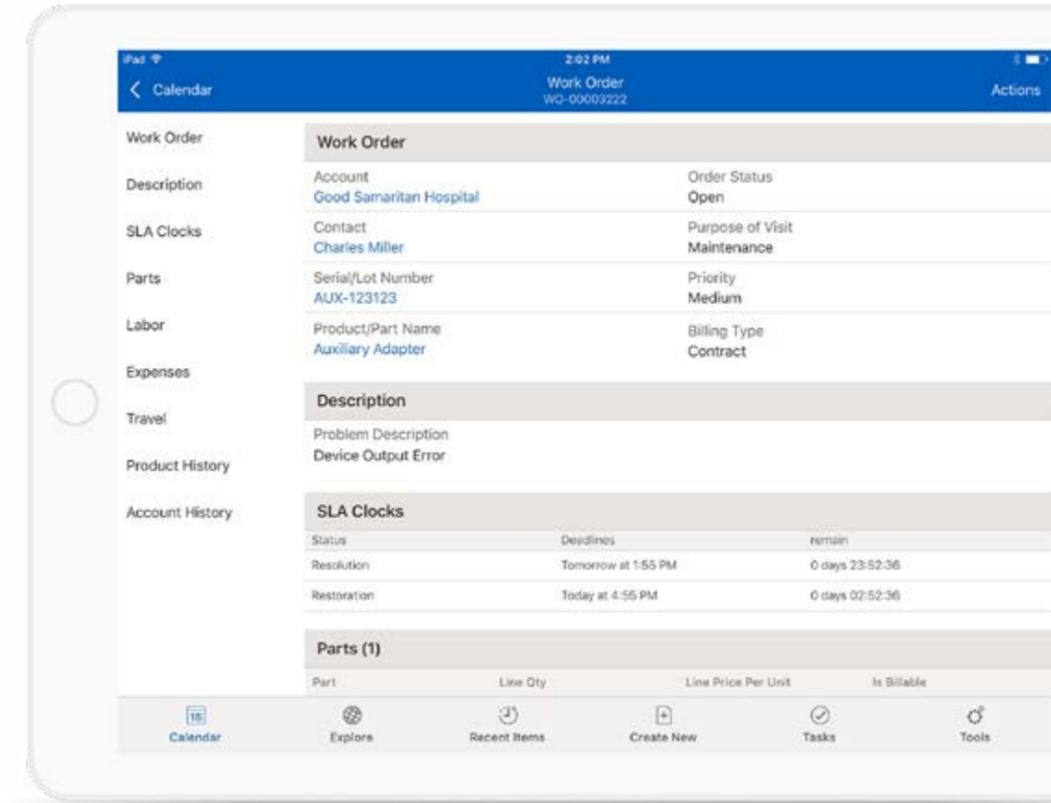
The comprehensive solution for field service

ServiceMax from GE Digital is the leader in field service management software. Our comprehensive solution helps customers of all sizes transform their service delivery processes to increase the efficiency of field service operations, drive revenue growth, meet compliance requirements, and improve overall customer experience.

ServiceMax is a modern, cloud-based, and mobile enterprise software solution built on a global, enterprise-grade cloud infrastructure. It enables the entire service delivery process, including work planning and scheduling, technician enablement, work order debrief, and business processes for installed base management, entitlements, and logistics.

“The ServiceMax platform has given us the hard data we need to better manage our service efforts. Net promoter scores that we use to measure customer satisfaction have increased dramatically. Time to resolution is way down, and managed services business is soaring. There’s nothing we don’t like about the ServiceMax platform”

**Matthew McKaig, Global Services Manager,
Mechdyne Corporation**



Connect your data

ServiceMax makes your IIoT data operational. With products for APM and PTC Thingworx integrations, machine data and alerts are captured in real-time to manage conditions-based maintenance programs and trigger work orders for field service dispatch. Reactive service is quickly replaced with proactive maintenance that improves uptime and customer experience.



Get insights

ServiceMax Performance Metrics are actionable measurements gleaned from the expertise of working with 400+ companies to define successful field service operations. With easy to configure standard metrics, such as contract uptime, average response time, mean time to complete, and utilization, ServiceMax reports and dashboard capabilities deliver key performance metrics for your service business across different regions and teams.



Optimize your operations

Designed to optimize all field service operations, ServiceMax not only provides complete visibility into the entire service delivery process, but also manages it. From revenue generating contract, entitlements, and installed base management capabilities to cost saving parts, reverse logistics, mobility, and collaboration functionality, ServiceMax helps customers, on average, increase service revenue by 13%, boost engineer productivity by 18% and reduce service costs by 8%.



Customer Success Services

Build a roadmap to transformation, implement and secure disruptive technology, and realize the promised benefits—fast—with our Customer Success offerings.

Advisory Services: Let us be your guide as you build your digital industrial transformation roadmap. The Digital Transformation Blueprint from GE Digital can help you develop a multi-year, executable plan based on your organization's current maturity status and your goals for your transformation journey.

More interested in making sense of your industrial data? GE Digital's Data Science team will mine your systems and create custom analytics based on your desired business outcomes—helping extract valuable insights from your data. And, you can

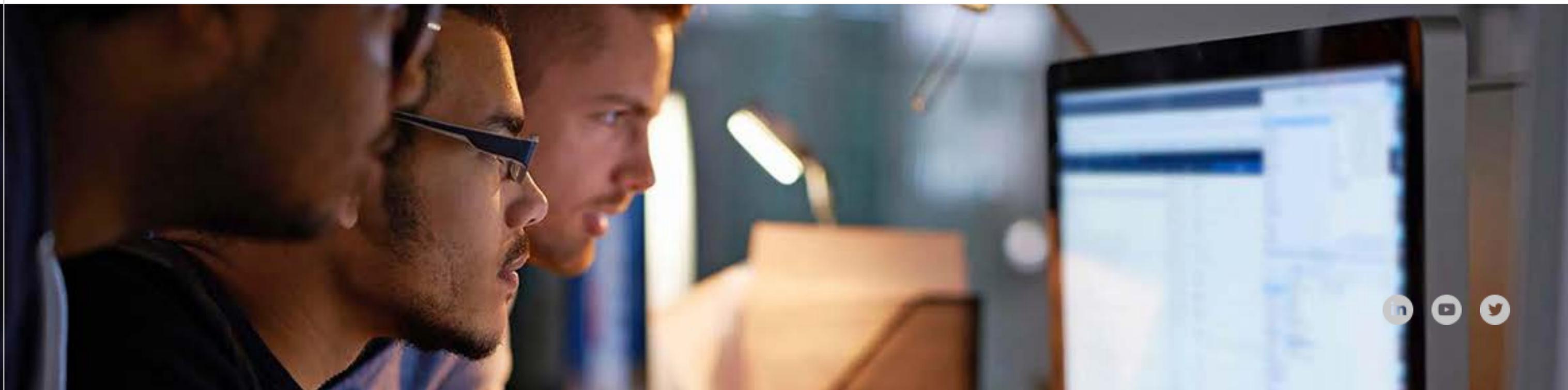
further accelerate your digital industrial transformation by collaborating with our team of experts at one of our GE Digital Industrial Foundry locations to rapidly solve problems and prototype new solutions.

Professional Services: From architecting and solution building to deployment and project management, our team of dedicated technical professionals will help ensure your software solution is implemented correctly—regardless of your IT environment or where your operations are based.

Managed Services: With mass amounts of data and access to cutting-edge analytics, it can be overwhelming to understand the new insights you are generating. Let GE Digital's experienced Performance Engineers do this for you. With over 250 years of subject matter expertise and over \$10 billion in industrial assets under management,

our Performance Engineers can help maintain your critical machines using model-based predictive analytic technology.

Acceleration Plans: Transformation requires more than just installing new software—it calls for the adoption and utilization of new tools and solutions across your enterprise. Acceleration Plans from GE Digital were developed specifically to address this need and drive outcome attainment. These plans offer a comprehensive set of service capabilities to help you accelerate value from your software investments and capitalize on your digital industrial transformation. Acceleration Plans address technical product support, end-user training and education, data health, and overall organizational adoption needs.





About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive, and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure, and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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