



**HONEYWELL
FORGE**

TURN BUILDING MAINTENANCE INTO A PROACTIVE STRATEGY

It's time to reset our expectations:
Optimize your uptime and operating
costs with predictive maintenance
capabilities that identify when
maintenance is actually needed

Honeywell Forge Buildings



WHEN BUILDINGS PERFORM SO DO BOTTOM LINES

Let's improve profit and loss (P&L) for your building operations: Honeywell Forge Performance+ for Buildings | Predictive Maintenance gives you the capabilities to do more, even with a newer workforce.

Reduce risk and uncertainty with analytics that give your teams early alerts about maintenance needs before they become costly disruptions, along with a transparent, near real-time view of system performance, asset reliability, and energy optimization throughout your portfolio.

PLANNED MAINTENANCE IS REACTIVE MAINTENANCE

Building portfolio operators are being asked to improve asset maintenance, establish vendor transparency, and reduce costs – all with a streamlined workforce.

And while reactive maintenance is inherently costly and disruptive, traditional scheduled maintenance also fails to deliver the value businesses need. Technicians waste labor servicing equipment at the wrong times – too soon, and too late.

In short, scheduled maintenance is fundamentally reactive, because breakdowns don't follow a schedule.



Inefficient workforce usage

Scheduled maintenance is too rigid, forcing technicians to waste time inspecting and maintaining assets that aren't broken



Aging, shrinking workforce

Large groups of maintenance staff are approaching retirement age, with a smaller, less-skilled workforce to replace them



Poor visibility into asset performance

Break-fix and scheduled maintenance make it difficult to track and validate asset optimization and vendors costs



Low vendor accountability

Lack of transparency makes it difficult to measure vendor compliance and return on investment



Complex vendor management

Building operators have to maintain contracts with multiple vendors, which is often difficult and costly to manage

But what if you could service equipment at just the right time, when it provides the most value – reducing failures, disruption, and wasted labor?

Now you can, with a little help from Honeywell Forge.

GOOD BUILDINGS RESPOND GREAT ONES ANTICIPATE

IMPROVE OPERATIONAL OUTCOMES WITH A PROACTIVE STRATEGY

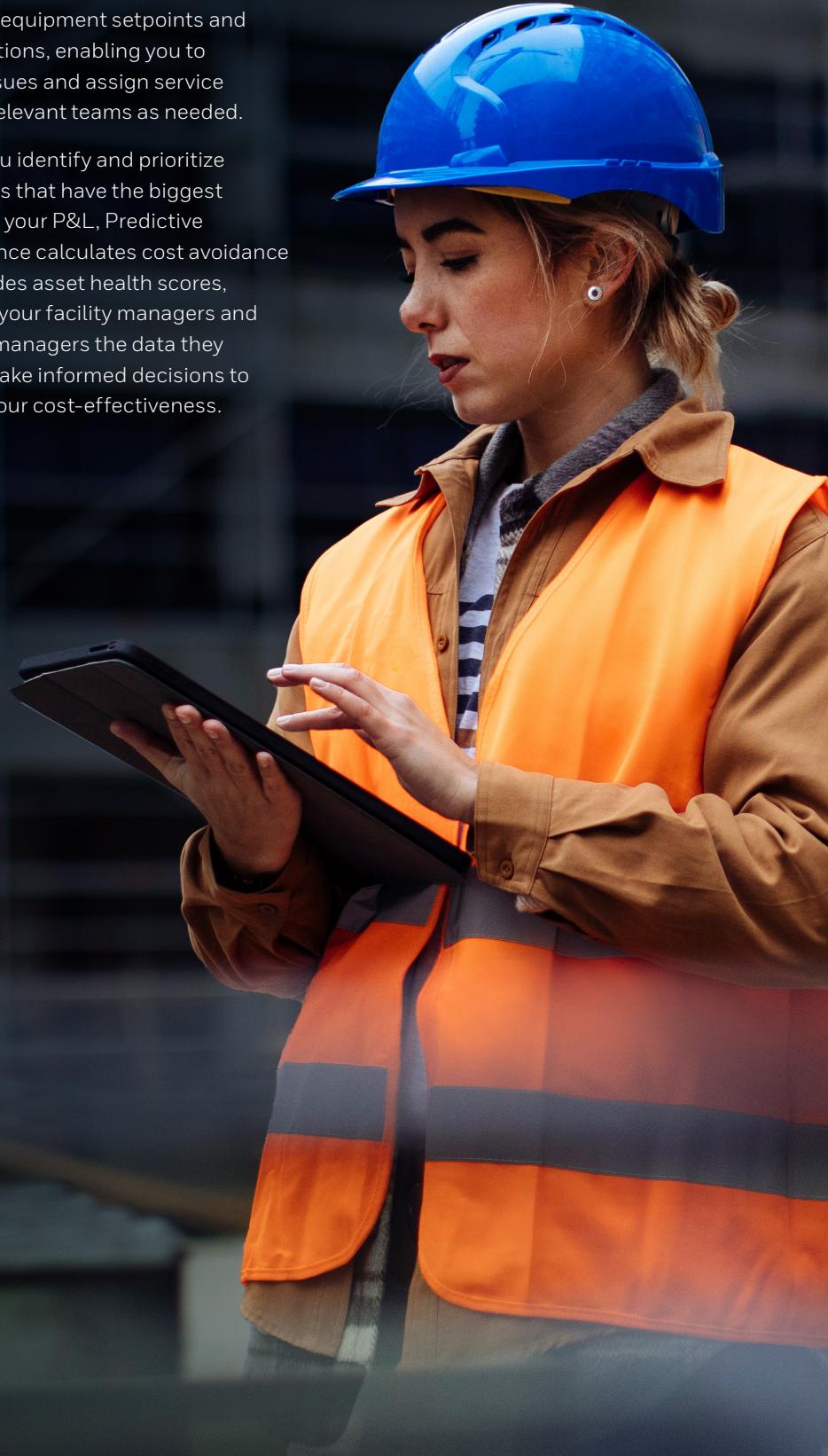
Honeywell Forge Performance+ for Buildings | Predictive Maintenance encodes decades of Honeywell Building expertise to help digitally transform the maintenance of your building systems.

Using analytics, equipment models, and dashboards, Predictive Maintenance shows you how your building is performing, identifies steps to improve it, and helps your service team track corrective actions to conclusion.

Your facility staff can remotely monitor near real-time values and trends for assets, and can view issues across related assets to pinpoint root causes. The system also enables remote

control of equipment setpoints and configurations, enabling you to resolve issues and assign service cases to relevant teams as needed.

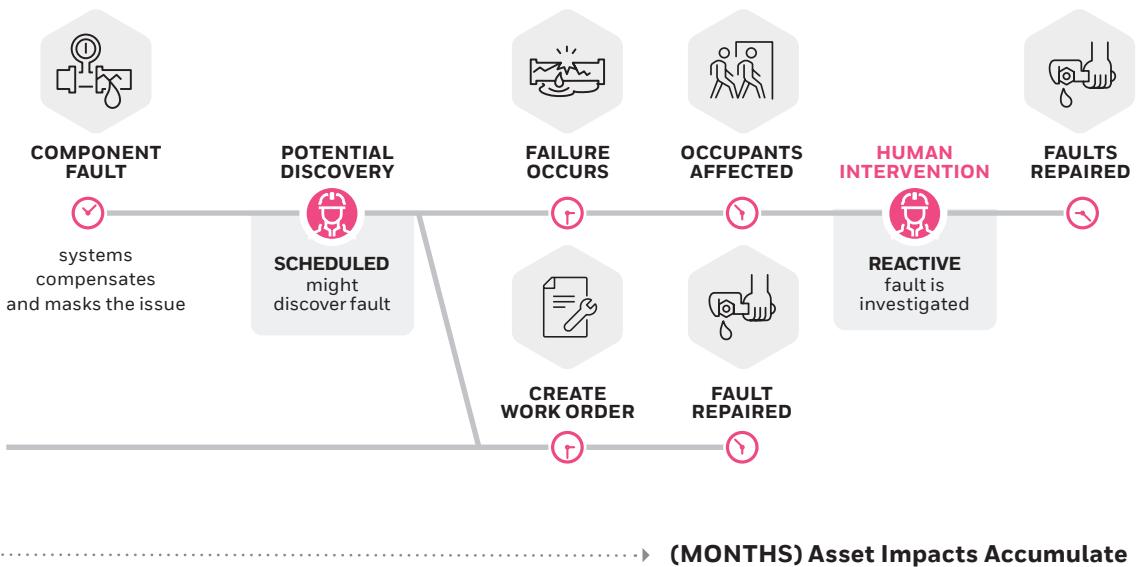
To help you identify and prioritize the actions that have the biggest impact on your P&L, Predictive Maintenance calculates cost avoidance and provides asset health scores, providing your facility managers and portfolio managers the data they need to make informed decisions to improve your cost-effectiveness.



THE STATUS QUO IS TOO SLOW

Reactive Maintenance

Something has to break before it's fixed



Scheduled Maintenance

Relies on people to detect faults

STAY AHEAD OF THE MAINTENANCE CURVE WITH HONEYWELL FORGE

Automated proactive recommendations replace inefficient, manual processes



Fix only what needs fixing



Near real-time monitoring detects faults earlier



Guides building operators and service professionals directly to the problem



See the actual cost avoidance you're achieving through professional service

HONEYWELL FORGE PERFORMANCE+ FOR BUILDINGS PREDICTIVE MAINTENANCE

HOW IT WORKS

Predictive Maintenance is part of the Honeywell Forge ecosystem for digital transformation that leverages the industrial Internet of Things (IIoT).

As a cloud-based application, it uses system-agnostic integration, sensing, and analytics to provide comprehensive monitoring and control of your building's key performance indicators (KPIs) – from asset reliability and energy efficiency to early maintenance alerts and cost avoidance.

The result: You gain the capabilities to improve the uptime and cost effectiveness of building operations throughout your portfolio, using intuitive, automated analysis and guidance to help you overcome skill gaps in your workforce.



INCREASE TRANSPARENCY, PORTFOLIO-WIDE

- **Focus on outcomes:** Monitor the KPIs you care about, such as comfort by zone, asset performance, energy consumption, service-case performance
- **Visualize your data:** Intuitive, ready-to-use dashboards and widgets help you monitor trends and meet operational goals
- **Customize your insights:** Build your own dashboards and data visualizations with an easy drag-and-drop interface



IMPROVE ASSET LIFECYCLES

- **Analytics and anomaly detection:** Cloud analytics of BMS data automatically identifies issues and creates service cases, helping to reduce or eliminate the need for scheduled maintenance
- **Asset reliability:** See the remaining useful life of your assets to better plan maintenance and capital investments
- **Root-cause analysis and triage:** View near real-time equipment data alongside trends, related assets, and service cases, to more effectively triage and analyze service cases and alarms



MONITOR & MANAGE REMOTELY

- **Control on the go:** Update setpoints and configurations to solve issues from anywhere, and dispatch service staff as needed
- **Respond to alerts faster:** Remotely monitor and manage system alarms
- **Manage service remotely:** Prioritize, assign, modify status, track, and resolve service cases via mobile device



GET THE SUPPORT YOU NEED

- **Open API:** Connect to external data sources to further enhance the scope of Honeywell Forge analytics and visualizations.
- **Rely on us:** Collaborate with Honeywell for end-to-end service and maintenance, as well as optimization of your KPIs and outcomes

AMPLIFY THE VALUE OF BUILDING OPERATIONS

DIGITAL TRANSFORMATION & AUTOMATION ARE HOW BUILDINGS DO MORE

Honeywell Forge Performance+ for Buildings | Predictive Maintenance digitally optimizes your maintenance strategy, enabling you to unlock the next step-change in your productivity and efficiency.



Increase service productivity

- Service professionals can prioritize based on cost avoidance and asset importance
- Easily diagnosis root causes using the Asset 360 capability to guide faster onsite resolution
- Flexibility to fix issues remotely, reducing the number of onsite visits



Adopt more cost-effective service models

Shift from hourly to transparent, KPI-based contracts



Improve the value of maintenance

- Configurable KPIs and custom visualizations enable you to focus on the most important factors for your business
- Cost-avoidance analysis quantifies the true value of your maintenance strategy



Increase operational resilience

Maintain consistent building performance for optimal conditions and operational uptime



Optimize asset life

- Use asset-health analysis to focus maintenance activities where they're most needed
- Reduce breakdowns and strain on critical equipment



Preserve flexibility with an open system

- Extensible system-agnostic capabilities work with any building systems and equipment
- More efficient, flexible capabilities for maintaining building performance
- Avoid rip-and-replace hardware projects

BETTER BUILDING PERFORMANCE STARTS WITH A WORKFORCE EMPOWERED BY BETTER TECHNOLOGY



Improve visibility

- Make better-informed decisions and investments
- Configure KPIs to align with your business priorities
- Drill down into performance details and issues



Create value from your data

- Analytics identify issues early for faster fixes, both remotely and on-site
- Fewer unnecessary inspections, less blind troubleshooting
- Improve occupant satisfaction, lower energy costs



Optimize awareness & uptime

- Continuous monitoring and analytics
- AI assessments of asset health
- Predicts failures to minimize and prevent downtime
- Helps prevent incorrect equipment operation to maximize asset life

ACHIEVE BETTER OUTCOMES WITH HONEYWELL FORGE



AVOID THE PITFALLS OF TRADITIONAL OPERATIONS



Uncertain return on investment

Timely data on building performance and service-team effectiveness is difficult to obtain



High operating expenses

Scheduled maintenance and reactive repairs result in high operational costs



High capital expenses

Unexpected breakdowns and uncertain asset life lead to unplanned expenses and high capital costs

THE NAME BUILDINGS TRUST HONEYWELL FORGE

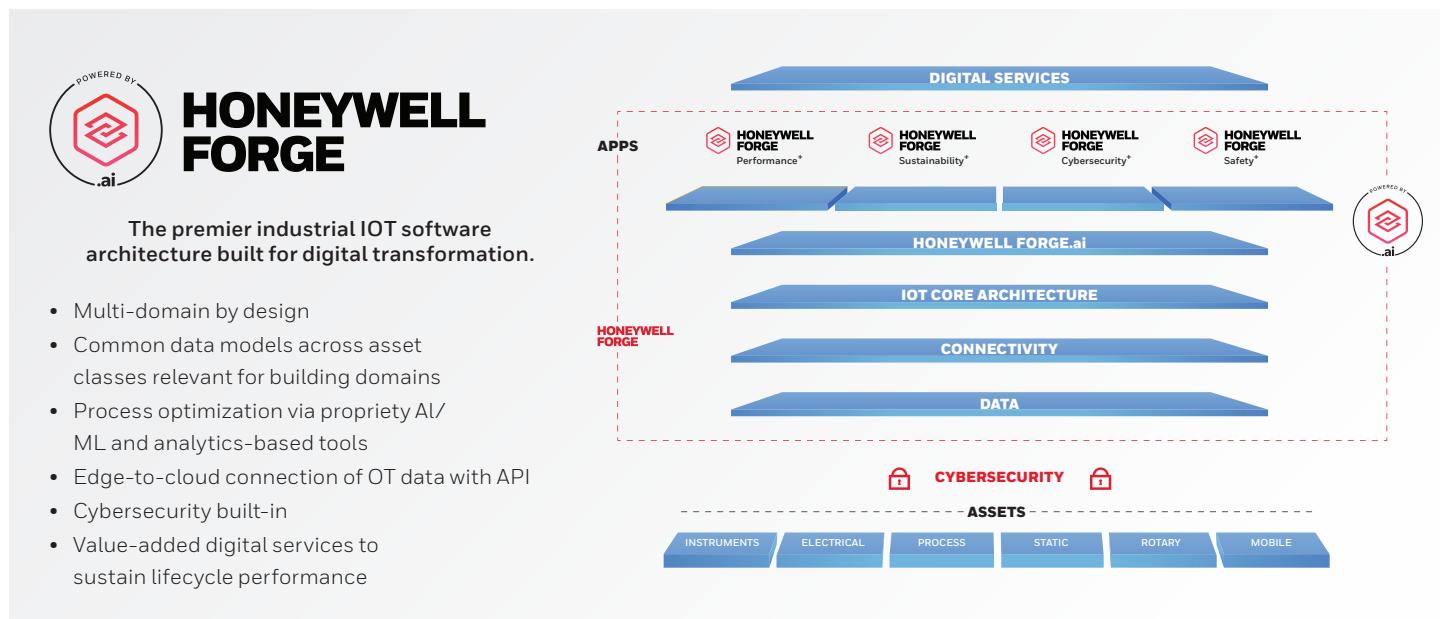
Helping buildings achieve safer, smarter, and more efficient operations has been the bedrock of our business for generations – which is why today, Honeywell software, systems, and technologies are in more than 10 million buildings worldwide.

Predictive Maintenance is part of the Honeywell Forge for Buildings ecosystem – a family of applications that provide a comprehensive approach to optimizing building operations and performance at a single site or throughout your portfolio.

The Honeywell Forge ecosystem includes software, hardware, and services that deliver key capabilities to help building owners and operators improve critical outcomes – such as life safety and security, operational efficiency, and sustainability.

Access the full ecosystem of applications to select and scale the capabilities you need via the Honeywell Forge for Buildings One Portal.

are designed for multi-asset coverage, autonomous control and optimization and open protocol for flexibility in managing your buildings ecosystem.



LET'S TRANSFORM YOUR BUILDING DATA INTO BUSINESS RESULTS

Honeywell Forge Performance+ for Buildings | Predictive Maintenance

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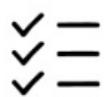
INTELLIGENT OPERATIONS CONNECTING INSIGHTS, PEOPLE AND PROCESS



DRIVING NET-ZERO
GOALS



REDUCING
OPERATIONAL COSTS



COMPLYING WITH
REGULATIONS

Honeywell Connected Enterprise

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Honeywell Forge Predictive Maintenance BR | Rev | 10/2024
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