HEXAGON

Cut food & beverage production downtime with smart asset management

No food and beverage (F&B) company can afford unscheduled downtime.

F&B is an industry pressured by outside forces such as consumer tastes and commodity pricing. But what is within control are the operations that get product to consumers.

One big way to optimize production is to slash downtime to deliver tens of thousands of dollars back to the bottom line.

In this e-book we provide tips on harnessing IoT, data-driven asset performance management (APM) and smart technologies to strike a careful balance between lean efficiency and maximized uptime.

Contents

The cost of doing nothing

Fixing assets when breakdowns occur has long been an industry standard. But manual record-keeping and scheduling invite errors. Worst of all, a lack of asset data analysis prevents insight into potential failure, which is necessary to keep production running and maintain a competitive advantage.

A recent Aberdeen report stated that most companies experience downtime, and that it can cost millions of dollars per day in lost productivity.[1]

82%

Percentage of companies that experience downtime over a three-year period

$2 million

Average cost of a four-hour outage

46%

Percentage of companies that couldn't deliver services to customers

37 %

Lost production time on a critical asset

The five stages of maintenance maturity

Planning an EAM evolution in order to take control of unplanned downtime starts with understanding the maturity of your asset management strategy. The five stages of asset maintenance maturity:

1. Reactive
What's broken gets fixed. While this is still a common practice, it's not sustainable as it leads to high downtimes costs, reduced inventory turns, and safety risks.

2. Preventive
Attempts to prevent failure are focused on general, wholesale efforts such as regularly scheduled maintenance, whether equipment needs it or not. While better than being simply reactive, this is a short-sighted approach that ignores big-picture issues and insights.

3. Condition-based
At this stage, the lifecycle of individual equipment, as well as parts, are looked at more carefully. Details such as the financial benefits of maintenance for that unique asset allows for analysis and reporting of return on investment. It also provides a roadmap for additional preventive measures such as routine inspections, lubrications, adjustments, and scheduled service.

4. Predictive
Data is collected to understand when failure is likely to occur, and its potential business impact. Mean time between failures (MTBF) significantly improves by mitigating risk. Any downtime is scheduled to occur with the least impact on customer service and productivity.

5. Prescriptive
This level not only identifies issues before they happen but lays out the processes and people necessary to avoid asset malfunction. Existing tactics are integrated with input from machine operators, performance evaluations, and results. With less time required for break-fix repairs, technicians focus on their own repair data analysis and long-term maintenance strategies.

"Smart factories will be the game changer for the US manufacturing industry. Adopting smart factories will likely result in threefold productivity improvements over the next decade."

Deloitte
Insights[2]

The predictive promise

Moving along the maintenance maturity spectrum towards predictive or prescriptive maintenance sets the stage for a successful, long-term asset performance strategy.

That strategy and its results include:

- **Maximum uptime**
- **Optimal resiliency to risk**
- **Improved employee hygiene for food safety**
- **Reduced food, energy, and water waste**
- **Longer lifecycle of crucial equipment**
- **Better regulatory and safety compliance**

Steps to take now

The transformation from traditional enterprise to asset performance management involves time and patience—for both staff and leadership. What's more, not all assets are created equal. As asset performance tactics evolve, individual assets can fall along different stages of the maintenance maturity continuum. However, there are some organizational mindsets that need to be in place.

Embrace digital operational twin

Staff and leaders should recognize that IoT, the proliferation of sensors, and emerging technologies such as AI, machine learning, and digital work enablement are key to consolidating, analyzing, and distributing real-time data across the enterprise.

Set priorities

Start by looking at the most mission-critical assets, from equipment, to transportation, to energy and power sources.

Apply the power of analytics

Consolidated asset performance data is ripe for automated and sophisticated data analytics, demand forecasting, and is the basis for more predictable cash flow.

Grimmway Farms
CUSTOMER CASE STUDY

A leading grower of baby carrots and dozens of other products, Grimmway Farms employs HxGN EAM (formerly Infor EAM) to manage more than 10,000 assets.

Grimmway's use of EAM has led to the following improvements:

- Easily migrating more than 270 users onto the system
- Monitoring data from across its entire environment and managing asset work orders more easily
- Simplifying reporting so that the team can prepare needed reports within 30 minutes
- Connecting employees to asset information whether they are working from an in-network computer or connecting via VPN

Maximize productivity with HxGN EAM

HxGN EAM (formerly Infor EAM) is an enterprise asset management solution that offers:

- A flexible deployment strategy: in the cloud, on premises, or as a hybrid
- Reliability, high uptime, and the ability to scale as companies, computing power, and data needs grow
- Predictive, preventive, and condition-based monitoring capabilities to optimize maintenance for improved asset performance and ROI
- Greater efficiency through HxGN EAM Digital Work.

Turn your asset management strategy into a competitive differentiator.

Learn more

1. **The real time cost of downtime in manufacturing**. MachineMetrics.
2. **Manufacturing goes digital: Smart factories have the potential to spark labor productivity.** 2019 Deloitte and MAPI Smart Factory Study.

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.8b EUR. Learn more at hexagon.com and follow us @HexagonAB.