

A food and beverage manufacturing worker in a blue protective suit and mask is shown working on a large stainless steel industrial tank. The worker is wearing a hairnet and a face mask, and is focused on adjusting a valve or fitting on the tank. The background shows more of the factory's complex piping and machinery.

infor®

FOOD AND BEVERAGE MANUFACTURING

Cut F&B production
downtime
with smart asset
management

Introduction

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 enterprise asset management (EAM), and smart technologies to strike a careful balance between lean efficiency and maximized uptime.

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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 downtime 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 Insights²

Deloitte.
Insights

The predictive promise

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

That strategy and its results include:



Maximum uptime



Less exposure to risk



Improved food safety



Reduced food, energy,
and water waste



Longer lifecycle of
crucial equipment



Better regulatory and
safety compliance



Steps to take now

True change starts slowly, and any transformation involves time and patience—for both staff and leadership. What's more, not all assets are created equal. Based on organizational impact, 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 disruption

Staff and leaders should recognize that IoT, the proliferation of sensors, and emerging technologies such as AI, machine learning, and mobile 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 data is ripe for automated and sophisticated data analytics, demand forecasting, and is the basis for more predictable cash flow.





CUSTOMER CASE STUDY

Grimmway Farms

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

Grimmway's use of Infor's solution 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 Infor EAM

Infor® EAM is enterprise asset management software 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 Infor CloudSuite EAM for Mobile

**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.



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www.llpgroup.com
contact@llpgroup.com

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641 Avenue of the Americas, New York, NY 10011

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