

How to Maximize Profitability and Productivity with Condition Monitoring

A solution from MindSphere®, the industrial IoT as a service solution from Siemens

Unplanned Downtime Costs More Than You Think

Unplanned downtime is one of the biggest threats to manufacturing profitability, impacting equipment availability, labor overhead, maintenance, engineering, production and more.



\$20B

is the total annual cost of unscheduled downtime across process industries, almost **5% of output value**
(Source: Stratus)



800 hrs

is the amount of downtime that manufacturers experience annually
(Source: ISA)



20%

of production is lost by many factories due to asset downtime
(Source: Parker)

Condition Monitoring Can Prevent Unplanned Downtime

An IoT-powered condition monitoring solution tracks a critical asset's key operating parameters to detect anomalies from normal operating conditions that may indicate a fault and alert users to take action before downtime occurs.

Improving OEE (made up of availability, performance, and quality) by as little as 10% can improve a manufacturer's bottom line by 20% or more

20%



25%

increase in production is experienced by implementing consistent, accurate condition monitoring (US Dept. Energy)

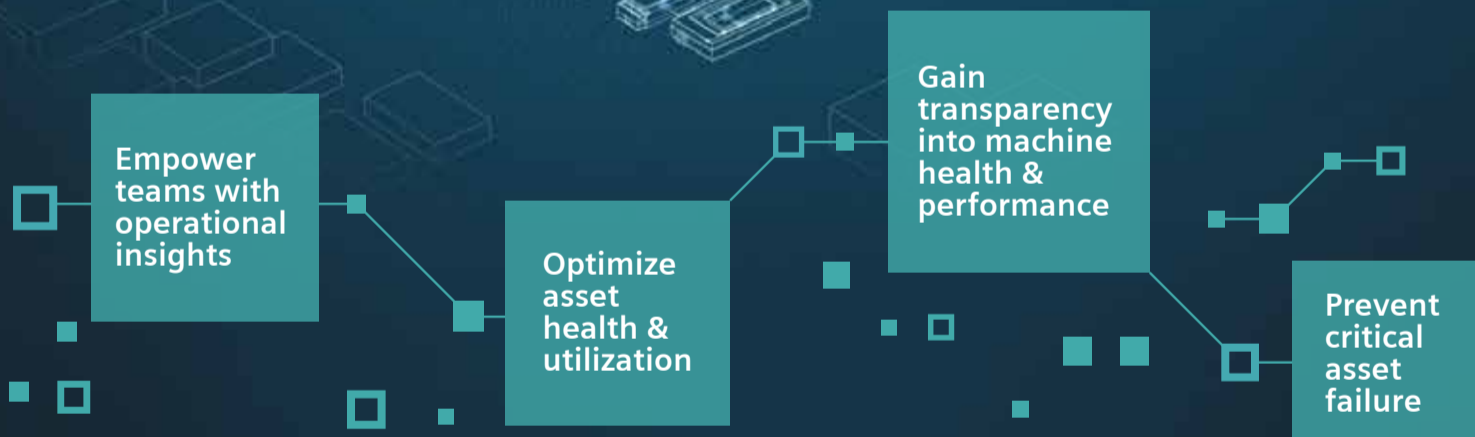
60-70%

of a company's condition monitoring savings can be directly attributed to reduced downtime



(Source: Machine Design)

Implement Condition Monitoring with MindSphere



MindSphere Users Have Been Able to Realize Up To:



30%

Savings on service maintenance



15%

Reduction in asset downtime



8%

Increase in manufacturing output

(Source: Based on data from existing MindSphere customers)

The Results

By implementing a condition monitoring solution using MindSphere, you can:



Reduce costs

Minimize infrastructure expenses and costs incurred from asset downtime



Enhance transparency

Gain a comprehensive view of asset health and operational performance



Minimize resource burdens

Adopt a mature IoT solution and eliminate maintenance tasks