

How to thrive in today's challenging Manufacturing industry

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The Manufacturing and service sector's economic health dropped

5.2 points from November to December 2018.¹

Month

PMI®

Dec 2018	54.1	Jun 20)18	60.2	
Nov 2018	59.3	May 20)18	58.7	
Oct 2018	57.7	Apr 20	18	57.3	
Sep 2018	59.8	Mar 20)18	59.3	
Aug 2018	61.3	Feb 20	18	60.8	
Jul 2018	58.1	Jan 20	18	59.1	

Month

PMI®

Institute for Supply Management's Purchasing Managers' Index for the United States in 2018

This marks the sharpest decline in years and triggers fears of slowed global growth. In an unsure market, reducing costs to stay competitive must be a top priority.



Increase uptime of high-value assets

Artificial Intelligence (AI) helps predict when asset repairs may be needed, increasing equipment uptime by up to 20%.²

Optimize ⁽) asset performance

Using artificial intelligence-powered asset performance optimization with predictive maintenance, organizations can intelligently forecast repairs to:



• Proactively address problems to ensure smoother operations.

20%

- Increase uptime for more opportunity to generate revenue.
- Detect issues before failure to lower costs and improve safety.
- Save money and labor while reducing downtime.

Manufacturers that implement predictive maintenance typically reduce machine downtime by **30–50%** and increase machine life by **20–40%**.³

How it works

Consider a steel producer that leverages AI to optimize productivity.

Step 1

Sheets of steel are pushed through rollers that flatten

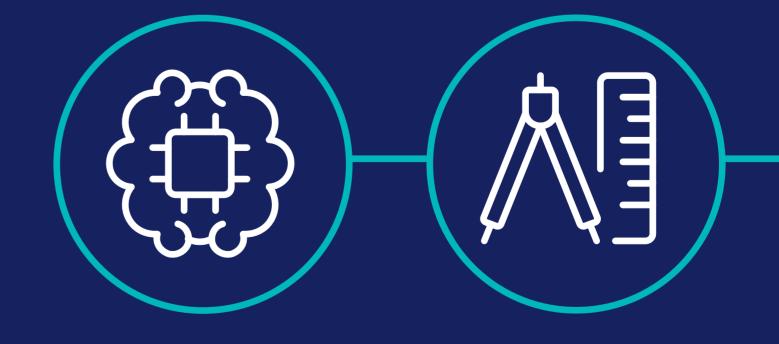


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them. Sheets produced too quickly can move off-center, resulting in crumpled steel. New steel must be fed into the rollers, causing unplanned downtime.

Step 2

A breakout predictor senses sheet movement and adjusts production line speed accordingly to avoid issues.



^aMcKinsey & Company, *Manufacturing: Analytics unleashes productivity and profitability*, August 2017.



¹ ISM, *December 2018 Manufacturing ISM® Report On Business®*, December 2018.

Step 3

With AI, breakout predictor data can be analyzed to identify patterns that indicate potential problematic conditions.

Knowing why problems occur takes a company from reactively dealing with an unplanned problem to proactively adjusting production and addressing conditions.



Learn more >

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² Deloitte Analytics Institute, *Predictive Maintenance, 2017*.