

How to thrive in today's challenging

## Manufacturing industry

### Reduce costs to stay competitive



The Manufacturing and service sector's economic health dropped

5.2 points from November to December 2018.<sup>1</sup>



Month	PMI <sup>®</sup>
Dec 2018	54.1
Nov 2018	59.3
Oct 2018	57.7
Sep 2018	59.8
Aug 2018	61.3
Jul 2018	58.1

Month	PMI <sup>®</sup>
Jun 2018	60.2
May 2018	58.7
Apr 2018	57.3
Mar 2018	59.3
Feb 2018	60.8
Jan 2018	59.1

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%.<sup>2</sup>

20%



### 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.
- 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%.<sup>3</sup>

### How it works

Consider a steel producer that leverages AI to optimize productivity.

#### Step 1

Sheets of steel are pushed through rollers that flatten 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.



#### 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.



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