

# Prevent downtime and lost production without breaking the bank

## Challenges to Improving Maintenance



*“When asked the key challenges for improving maintenance at their facility, plants reported a lack of resources, funding and understanding of new technologies as the top three challenges.”*

– Plant Engineering magazine, report on the state of Maintenance, April 2016.

### What if...

- You had experts that only ran data when you needed it?
- You had all the “smart” data you need to make decisions?
- You had the latest technology without the capital investment?

Updating or adding resources to help improve your plant’s performance can sometimes seem more like a dream than reality, especially when you spend most of your time reacting to unexpected issues.

What you want is more support, more funding, and more specialized resources to get you to an improved reliability program. You need performance and criticality data that could help you make better decisions and prevent downtime and lost production. But crossing the threshold to effective optimization of your maintenance activities seems less and less attainable.

Even when you’ve invested in newer technology, it’s hard to see the value when you don’t have anyone to take care of it. In fact, you don’t even know if you are prioritizing the right work. It becomes harder to focus and keep management apprised on upgrades and long-term funding.

### NOT ENOUGH RESOURCES TO COLLECT DATA

You’re trying to focus on improvements, but it is too difficult to build and sustain a team of experts. And it’s hard to justify the costs of more resources when you may only need them occasionally. You aren’t sure if management even cares about the effect of reliability on operations, let alone be willing to fund more resources.

### NO ONE TO INTERPRET DATA THAT CAN HELP MAKE DECISIONS

Even when your technology has been upgraded, you don’t have the experts to understand the data and to teach and mentor others in how important it is. Condition monitoring requires specialized expertise to interpret data and, sometimes, condition monitoring tools and data are not compatible (such as vibration, oil analysis, and thermography). Since no one is looking at the data to make the decision, the priorities don’t rise to the top. Or, you don’t have enough machinery data for a full picture, and even the data you do have is not enough.

### NEW TECHNOLOGY IS TOO EXPENSIVE; NEED RESULTS TO GET FUNDING

Changing your company’s culture and getting leaders to drive change through the organization can be a never-ending hassle. And because the performance metrics have been lacking, management becomes disengaged and figures everything is fine with the status quo.



*A successful reliability program needs the right balance of data, resources, and program funding.*

# MACHINERY CONDITION AND PERFORMANCE MONITORING

## RESOURCES YOU NEED WHEN YOU NEED THEM

Imagine if you had the experts you needed, without having them on payroll, when a machinery issue occurred? What if these experts had access to all the reliability data necessary to determine the root cause of your machine issues and recommend a resolution?

### Technology can identify issues earlier.

Emerson has years of expertise in machinery condition and performance monitoring, along with industry-leading tools to gather key machinery health data. With tools like PeakVue technology, you can get help identifying bearing wear long before it would be visible to the eye, therefore enabling you to better plan for replacement.

## IMPROVE RELIABILITY WITH BETTER DECISIONS

What if you had a team of analysts working across multiple user sites to garner a unique pool of knowledge and experience that no single user could ever match? Knowledge would no longer be limited to the assets contained onsite. Instead, you would have access to analysts, who have experience looking at a broader range of assets.

### Cut out the noise.

What if experts examined performance monitoring to identify mechanical fault conditions before a potential failure occurs and condition monitoring to better plan your maintenance with a complete view of your machinery? You would be notified only when there was a critical issue. When you cut out the noise in your alerts, you can focus on the problems that require action. Emerson's pervasive sensing initiative allows you to add data measurement points wirelessly through a CSI 2140 Machinery Health Analyzer. Or you can provide data to Emerson experts.

## AVOID DOWNTIME

Couldn't you benefit from a global network of dedicated subject matter experts who support investment in technology? With this kind of expertise, you could:

- Focus on your process.
- Use your condition monitoring investment to do what your technologies promise and actually solve problems.
- Realize your investment value through ROI reports that can demonstrate the value of your investment and help change plant culture.



*With Emerson's Machinery Condition and Performance Monitoring, you have access to machinery experts from anywhere in the world.*

### Emerson

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