

# Work Smarter, Not Harder

## Smart Manufacturing

*Is there a way to predict when machinery will need maintenance?*

*How long has this piece of equipment been running hot?*

*Why does production drop every night?*

### What's "smart manufacturing?"

When we talk about smart manufacturing, we're talking about using the data that you may already be collecting. If you use equipment sensors, for example, that measure vibration, temperature, speed or pressure on your plant floor, then you may already be on the way to smart manufacturing.

Then, you'll need to ensure all of that collected data works for you. It's impossible for human beings to make sense of "big data"—there's just too much of it. But data analytics software can help you put all of your data to work, by recognizing patterns and predicting events.

Smart manufacturing means fixing problems in real time, too. If conditions change unexpectedly or a failure arises, you know immediately—not hours later, after countless defective products have been made.

Here's the bottom line: Smart manufacturing gives you superior control over all your processes.

### It sounds risky. Technology is always changing!

Right—that's exactly why you should build a solid foundation for the adoption of future technologies now. As technologies multiply and become much more advanced and more commonplace, you'll be well-positioned to take advantage of all the benefits that they'll offer you and your customers.

### I'm just not sure if we're ready. Can you help?

Yes! Our engineers can conduct a readiness assessment at no cost to your company. We'll use an assessment tool to give you a score that determines how close you are to being able to successfully implement smart manufacturing, and let you know the next steps you need to take in order to reach your goals.

### Benefits of Smart Manufacturing

- › Increased Operational Efficiency
- › Preventative Maintenance
- › Quality Improvements
- › Agile Manufacturing
- › Continuous Improvement

### CESMII

The Clean Energy Smart Manufacturing Innovation Institute (CESMII) is a regional program that works through public-private investment to improve the precision, performance and efficiency of US manufacturing. CESMII's Southeast region is administered by the North Carolina Manufacturing Extension Partnership (NCMEP).

### Interested in Learning More?

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