

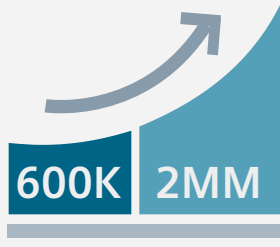
# Diagnosics Do-Over:

## Faster Fixes, Fewer Experts Required

Advances in controller technology have improved the quality of diagnostics data over the design, commissioning and maintenance phases, resulting in faster troubleshooting for less downtime. Be sure you're getting the most advanced integrated system diagnostics available to address the challenges you face by modernizing to truly future-focused controllers.

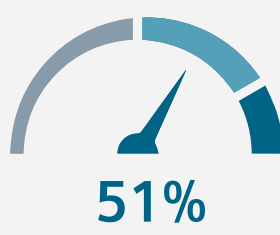
### Challenges You Face

#### Shortage of Skilled Workers



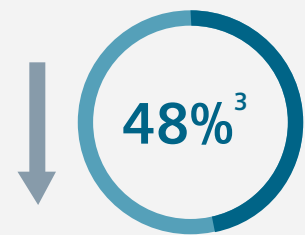
Unfilled manufacturing jobs to increase from 600,000 in 2015 to 2 million in 2025<sup>1</sup>

#### Pressure to Accelerate Processes



of manufacturers cite "greater speed to market" as a top priority<sup>2</sup>

#### Cost-Control Mandates



ISM supply manager index lower than in the past two years<sup>4</sup>

### Cut Engineering Time

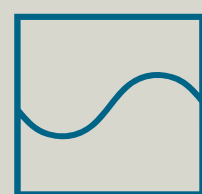
Advanced controller technology can minimize engineering time through these features:



**Pictorial system view** with online diagnostics for a single, complete project management tool for multiple devices in one common database



**Time-saving functions** such as online/offline comparisons with detailed differences for easy synchronization of the project



**No-PC-required trace functions** for program and application diagnostics in real-time for recognizing even sporadic problems

### Reduce Downtime

With advanced diagnostics capabilities, you can cut downtime with:



**Integrated "no programming" system diagnostics**, automatically generated during device configuration



**Consistent display concept** that enables the identical plain text visualization of fault notifications, both locally and remotely across the engineering environment and on the HMI, in the web server, and on the CPU's display for systematic diagnostic information



**Code modifications** without stopping the PLC

### How can your manufacturing plant benefit from advanced integrated diagnostics?

Advanced integrated system diagnostics

Reduced engineering time  
Less downtime

Greater transparency  
Higher productivity

Increased ROI

► Find out more about the innovative diagnostic capabilities of modern automation.

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References:

- <sup>1</sup> Deloitte and Manufacturing Institute, *The skills gap in U.S. manufacturing, 2015 and beyond*, 2015
- <sup>2</sup> KPMG, *Global Manufacturing Outlook*, June 2015
- <sup>3</sup> Institute for Supply Management, *Report On Business*, January 2016 Manufacturing ISM®
- <sup>4</sup> Institute for Supply Management, January 2014 Manufacturing ISM®, Institute for Supply Management, January 2015 Manufacturing ISM®