

## 5 Signs Your Controllers Are in Critical Condition

Not all controllers are created equal. Truly modern controllers help manufacturers enter the age of digitalization with features such as integrated safety and security, as well as built-in communications. Controllers lacking these essential features can lead to diminished ROI, putting manufacturers at a competitive disadvantage.

Here are five warning signs that it might be time to replace your controllers:



1

Unscheduled downtime and system faults are killing production



**Up to 20%**

Lost production due to downtime<sup>1</sup>

### Solution

Controllers with integrated, no-programming diagnostics provide the transparency plants need to identify issues before they materialize.

2

Legacy vendor hardware is obsolete, and no spare parts are available



**35%**

Potential increase in downtime due to ineffective planning for spare replacement and legacy repair<sup>2</sup>

### Solution

Modern controllers are fresh in their product life cycles and include feature-rich technologies, such as:

- Integrated safety
- Integrated diagnostics
- Integrated security
- Integrated trace

3

Controllers can't communicate effectively with today's data-collection mechanisms



**65%**

Survey respondents who say they lack interoperability or the standards needed to move toward digitalization<sup>3</sup>

### Solution

High-speed controllers with built-in communications features bring more mission-critical data to plants effectively.

4

Capitalizing on new or emerging business opportunities is impossible without modern controllers



**80%**

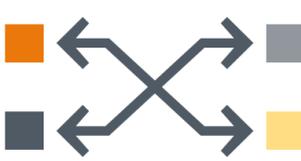
Company leaders who say digitalization will have a high degree of impact on planning and controlling<sup>4</sup>

### Solution

Today's modern controllers offer the ability to efficiently receive data upstream and downstream to streamline plants from design through production.

5

Older controllers are inflexible and can't adapt to rapid shifts in customer demand



**62%**

Survey respondents who say digitalization will have a high degree of impact on production flexibility<sup>5</sup>

### Solution

Modern controllers allow process changes on the fly to meet customer requirements — even during ongoing operation.

For more information on how you can successfully upgrade to future-focused technologies, contact Siemens at [usa.siemens.com/modernize](http://usa.siemens.com/modernize).

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References:

- <sup>1</sup> Motorola Solutions, "Keeping Production Moving With Integrated Plant Communications," 2015
- <sup>2</sup> "How to Reduce Automation Obsolescence Risks (Without Losing Your Mind)," March 12, 2013, Maintenance Technology
- <sup>3</sup> "Industrial Internet of Things: Unleashing the Potential of Connected Products and Services," January 2015, World Economic Forum in collaboration with Accenture
- <sup>4</sup> "Industry 4.0: Opportunities and Challenges of the Industrial Internet," 2014, Strategy&
- <sup>5</sup> Ibid.