THE BLUE FASHION "I would have thought that someone in management would have had the decency to tell me directly."

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**New Math For New** 

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Technologies In

Manufacturing



New technologies, by their very definition, need new economic models

to capture and justify their value. Newer IoT and digital technologies

are driving the call for a new way of thinking about—and modeling—

ROI, so decisions consider how the solution drives more revenue and

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are no longer made using cost savings as the primary metric.

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In this article, I'll focus on why ROI models used to evaluate digital technologies need to include measurement of a solution's ability to compress time, i.e., achieve better results faster, in order to serve today's highly dynamic and interconnected manufacturing, specifically: • What does it mean to "compress time" in manufacturing?

• Why does a solution's ability to accelerate time-to-insight and time-

to-action matter more than cost reduction in the digital age of

- Best Covid-19 Travel Insurance Plans
- **Compressing Time: The New Metric For Measuring Innovation ROI In Manufacturing** It is rare to find an ROI model that incorporates the "dollar value" of the time saved by detecting quality issues sooner and being able to

It's time for manufacturers to take a page from their digital brethren,

leaves the lab is built on sound reasoning. When issues are discovered

• How do manufacturers build an ROI model that effectively measures

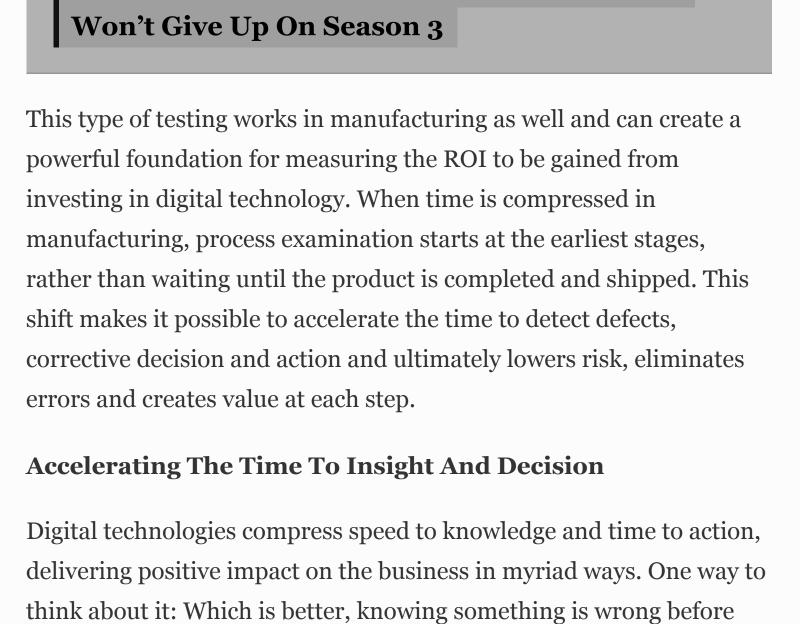
the impact of new technology and ensures that investments deliver

who've begun integrating testing into the software/system engineering stage in order to find defects earlier. This move to compressing the time it takes to find problems before the product

earlier, they are less expensive to identify and easier to fix.

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Five Months Later After, 'Warrior Nun' Fans



the product leaves the factory, or waiting two weeks to find out the

Another way to think about it is in the context of lean operations,

where, for example, continuous improvement initiatives measure key

performance indicators every, say, 100 production runs. What if those

measurements were taken on every single production run? During the

run? By measuring performance in real time and, more importantly,

providing the insight needed to address anomalies and resolve issues

in real time. How much better would the product be then? How much

product is failing to perform as promised?

The answer is pretty obvious.

most of—(digital) innovation.

technologies, manufacturers can:

**Greater Value** 

late to recover.

productivity and quality.

more productive than the previous day.

waste would be eliminated? How many ideas for improving the product design or production process would be generated? ROI models for the digital age of manufacturing will answer the question: How valuable is speed to knowledge and the ability to compress time to action to my operation? Manufacturers who build ROI models that capture what "sooner" means in actual dollars will find themselves in a much better position to invest in—and make the

Faster Access To Knowledge + Insight-Driven Decisions =

The math will be different. But it is not hard. The easiest way to

compute the value of innovation is to identify the fundamental

changes most needed to realize the benefits of digitization and

To start on the path to smarter, more useful ROI models for new

determine how accelerating those shifts will transform the business.

• Start looking for issues and opportunities in processes from the beginning, rather than waiting until the end, when it will likely be too

• Ask—and define—the value of speeding the time to insight, decision

• Evaluate fundamental changes in the context of speed: What will it

mean to achieve changes faster, particularly around shifting the

and action, and what it means to the tried-and-true metrics of

organizational mindset to emphasize value over cost? Value over cost means optimizing human contributions to the process, facilitating collaboration (standard work designed through collaboration between a line associate and an industrial engineer versus simply designed by an industrial engineer) and building

fluidity into the operation so that every day is a productive day—and

Whether it's finding and correcting an issue before it wreaks havoc

with liability and brand reputation or bringing new hires up to speed on production tasks more quickly, all have huge economic implications. Building the ability to view the value of new technology through the lens of how quickly value can be created by compressing time is the secret sauce to winning in the marketplace.

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