

CHEMICAL COMPANIES **BRACE AGAINST MARKET** VOLATILITY WITH DIGITAL **TRANSFORMATION**

In the past decade chemical manufactuers have suffered

highly variable market conditions. Fluctuating raw material costs, trade tensions between nations, and energy surpluses have challenged global organizations to build greater flexibility into their operations without risking safety or customer satisfaction. Digital industrial transformation is the critical element enabling chemical companies to offset market volatility by reigning in asset volatility and bringing predictability to the manufacturing process.

OUT OF MANUFACTURING **OPERATIONS**

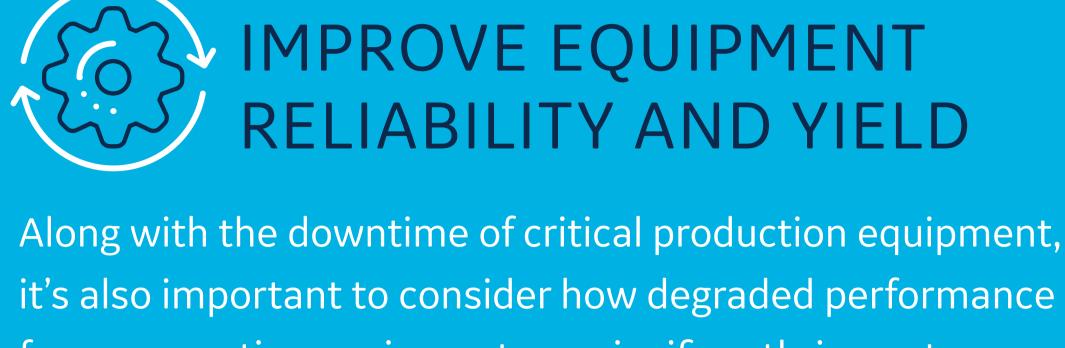
TAKE THE GUESSWORK



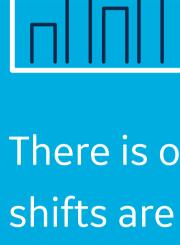
DOWNTIME Predicting when equipment failure might occur and

MINIMIZE UNSCHEDULED

improves throughput and production efficiency.



from supporting equipment can significantly impact quality and yield. With industrial applications, chemical manufacturers can detect and diagnose when equipment degradation is beginning—preventing downtime and improving yield.



PREDICT THE IMPACT OF CHANGE There is one thing we know for sure, and that is market shifts are difficult to predict and can sometimes catch us

by surprise. Often these conditions offer the opportunity to meet short term spikes in demand. But, at what cost to our equipment stability? Digital transformation initiatives provide the insight needed to maintain agility, and adjust operations to meet short term demand, without negatively impacting long term needs.

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MAINTENANCE BY

THE THREE P's

POLINTER REDUCES REACTIVE





OF MAINTENANCE

a pre-planned schedule and may lead to unnecessary repairs or part replacements.

1 PREVENTATIVE MAINTENANCE

conducting maintenance tasks to avoid a future

Preventative maintenance is the process of proactively

equipment failure. Tasks are completed according to

2 PREDICTIVE MAINTENANCE Predictive maintenance adds a layer of additional insight into likely equipment failure and informs preventative maintenance schedules to reduce unnecessary tasks.

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Prescriptive maintenance offers the ultimate in efficient

allocation of resources because it goes beyond best practice scheduling, to respond to real-time component

health analysis.

FAILURES BY

AN ESTIMATED

extinction—for good reason.i

CRISTAL GLOBAL REDUCES THE RISK OF EQUIPMENT

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MM per

year

K in production of downtime lossesii can cost up to

Digitalization is expected to result in increased revenue

and reduced cost, and at the same time, enhance the

EBITDA margins by up to 9% in the industry.

believe that companies failing to embrace digital face





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VARIATION BY



Leading chemical manufacturers turn to GE Digital to transform real-time equipment data into predictable performance. Learn how you can unlock these benefits

and more with GE Digital's portfolio of industrial applications.

Documents/Global/PDF/Dualpub_6/Accenture-Insight-Digital-Chemical-Survey-Infographic.pdf iAberdeen Group, Asset Performance Management: Blazing a Better Path to Operational Excellence, November 2017

ivhttps://www.businesswire.com/news/home/20190108005471/en/

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