

Siemens PLM Software

Realizing the Digital Enterprise for medical devices

Why the need for digitalization?

"Digital technology, despite its seeming ubiquity, has only begun to penetrate industries. As it continues its advance, the implications for revenues, profits and opportunities will be dramatic.'

Nearly 50% of the world's households have internet access and more than 50% of the world's inhabitants possess smart phones. There is no debate about whether the world is fueled by digitalization.



A recent study reveals that linking the physical and digital worlds could generate anywhere from \$4 trillion to \$11.1 trillion a year in economic value by 2025.



Global trends are paving the way

In addition to the digital age and the Internet of Things (IoT), significant social megatrends are shaping the future of the medical space.





Average life expectancy is increasing.1





90%

90% of executives agree the digital economy will impact

their industry.6





Global warming continues to inch up each year.4

Technology and benchmarking implementations are top of mind for today's executives.⁷



50% of companies that refuse the move to digitalization will fail.5

1. Center for Disease Contol and Prevention, 2012; 2. UN Conference on Trade Development; 3. UN World Population prospects, 2015; 4. Met Office Hadley Center observations, 2014; 5. FDA Impact on U.S. Medical Technology Innovation, 2010; 6. MIT Sloan Management Review, 2014; 7. Sirius Decisions Global CMO Study, 2016

Digitalization is powering the medical device industry

Revisit business as usual

Hospitals and medical organizations are facing significant budgetary constraints that are forcing purchasing decisions be more intelligent. The medical products that are ultimately purchased need to provide tremendous value.

Redefine the supply chain

We must redefine the supply

Drive business success

"Medical devices makers need to develop a concerted IoT strategy to drive business success. The true value of IoT lies in its transformative potential and innovation."

Increase revenue

Reduce product recalls

From 2009 to 2014, there was a 3X increase in adverse events and a 50% increase in product recalls. These numbers will rise without proper digital processes implemented across all business segments within any given medical device organization.

Capture opportunities

Medical device manufacturers

chain to "become more agile, increase capabilities to support demand-driven performance, and align value to unleash untapped assets and expertise."



Companies which master digital capabilities are generating 8% more in shareholder returns.

that remain solely focused on engineering-based or sales-based business strategies may be throwing away valuable opportunities for collaborative S development within the supply chain.





Data **Big data analytics**

A fully-integrated digitalization program

The perfect balance of speed, quality and compliance.

To learn more, please visit: www.siemens.com/plm/medical-digital-enterprise

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