



Agenda





Why End-to-End Quality Management?

How to achieve good Quality?

Closed Loop Quality Use Case

Quality integrated with Engineering

End-to-End Quality Management Benefits

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Introduction Round





Who uses Siemens Teamcenter?
Who uses Siemens MES?

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Video





https://www.youtube.com/watch?v=YxfPTmJCp7U

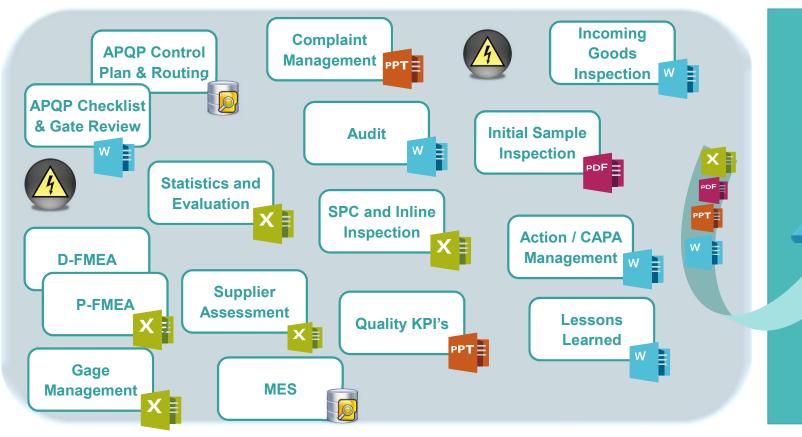
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Increase transparency - Closed Loop Quality Systems

Disconnected systems and processes





Holistic quality management software



Siemens
Opcenter
Quality

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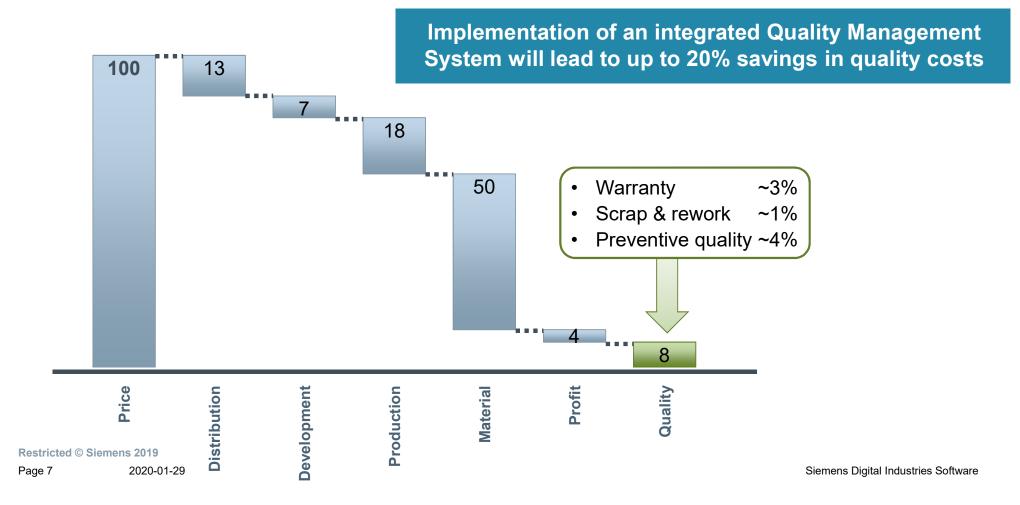
Page 6 2020-01-29

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Why End-to-End Quality Management

Cost Structure of Manufacturers





Top operational challenges in quality management

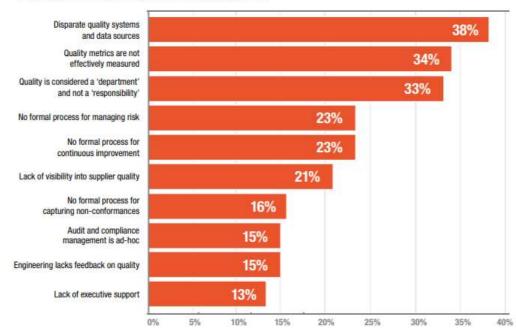
Holistic quality approach is becoming more critical



Much of industry has low quality maturity due to:

- Chronic underinvestment in quality
- Lack of technology and lack of formal processes
- Quality is considered to be a department, not a global responsibility

Top Operational Challenges in Quality Management



Source: LNS Research 2016 Quality Management in the Board Room: Building the Executive Business Case for EQMS

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How to achieve a good quality maturity within company?

SIEMENS
Ingenuity for life

Quality has often been an aspect heavily talked, but scarcely invested and its value is well understood but, at most times, is not properly managed.



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How to achieve a good quality maturity within company?





Holistic quality system and centralized data



Manage at executive level to enable top-down approach



Involve **people and processes** across departments and functions

Quality management must extend beyond the traditional approach to encompass the often-invisible causes of poor quality throughout the value chain.

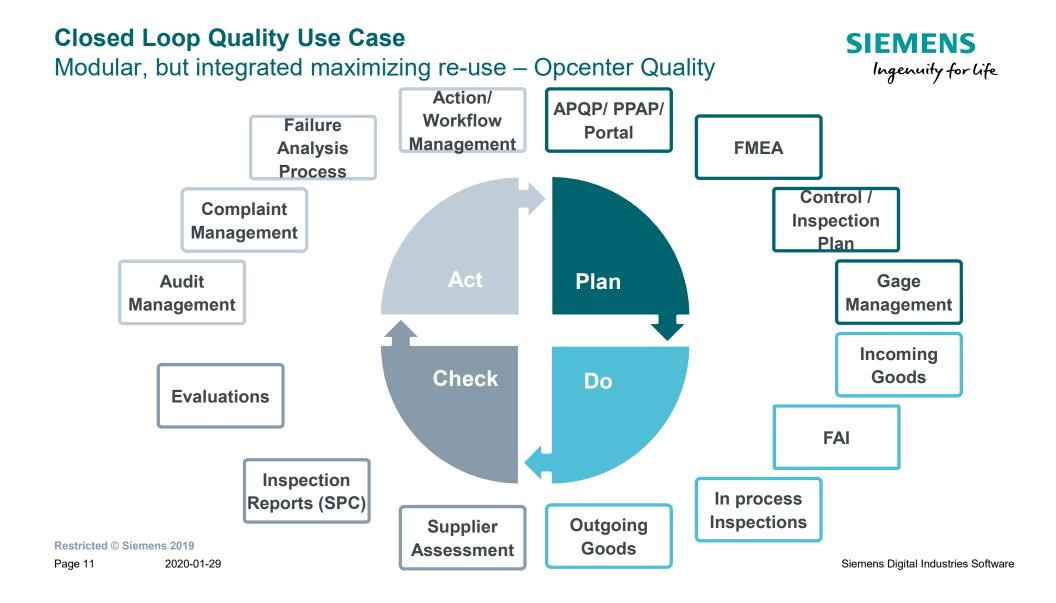


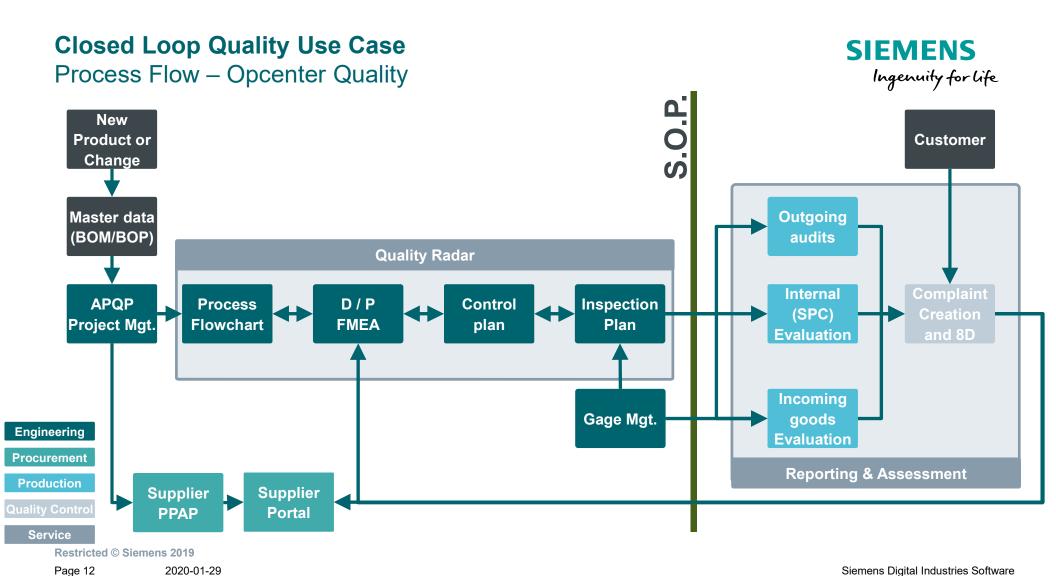
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Page 10

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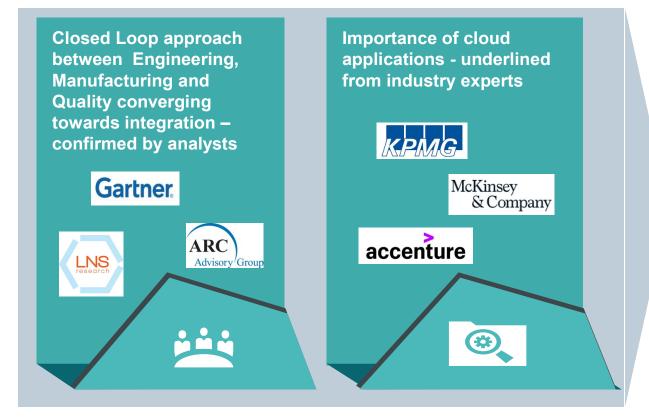
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The market is asking for new generation of quality solutions Let us competitively enter the next decade





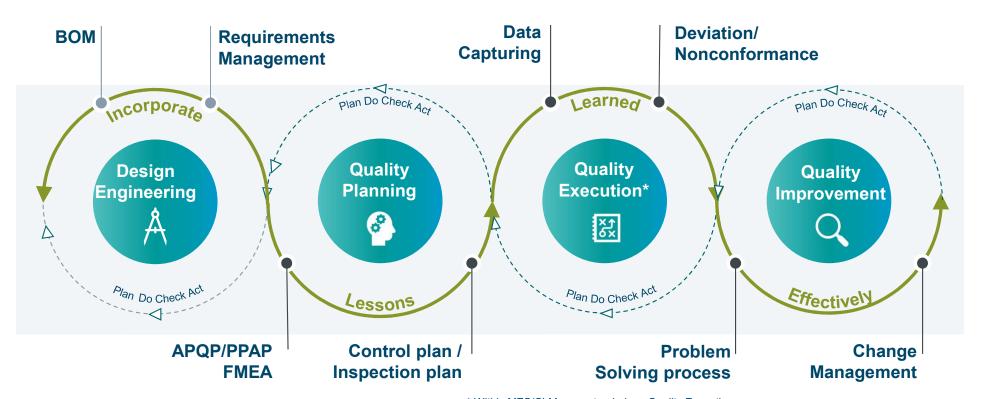


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Our vision of Siemens Digital Enterprise for Quality solution Bring value by keeping quality processes & teams in sync





* Within MES/CLM or as stand-alone Quality Execution

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End-to-End Quality Management

Business Benefits

- A consistent and integrated IT system supports the Zero Defect Strategy through Lessons Learned loops in all interdisciplinary fields
- Achieve Operational Excellence and increase Customer
 Satisfaction whilst facilitating shorter development times
- Reduction of administrative workload (Paperless Quality)
- Increased supply chain efficiency due to direct supplier involvement
- Corrective actions become Preventive Actions
- Allows Significant Savings ~ ROI in less than 1 year
- Reduction of process-, quality- and defect costs (internal, external)
- Strengthens Market Position and Competitive Advantage







Q&A

How End-to-End Quality is driving Business forward

Maria Walther, Business Consultant MOM