THE FUTURE IS TODAY: TRANSFORM QUALITY THROUGH 3 COMPANIES, 3 PATHS TO PREDICTIVE QUALITY HOLDS THE KEY TO UNLOCK QUALITY PERFORMANCE.

A COMPANY'S INDUSTRIAL TRANSFORMATION INITIATIVE Critical to Industrial QUALITY 4.0: COST OF QUALITY IN CONTEXT OF CAPABILITIES MATURITY

PREDICTIVE QUALITY AS AN EXAMPLE.

STRATEGIES TO LEVERAGE THE OPPORTUNITY:

THE VALUE IS REAL: IMPROVING QUALITY MATURITY LEARN FROM INNOVATORS

Innovative manufacturers apply analytics to reduce CoQ by 5% of total revenue.

Lack of executive support, lack of visibility into supplier quality, and weak data consistently stifle improvement efforts.

Fundamentally unchanged, quality 4.0 is not a standalone transformation initiative. It must integrate with traditional quality approaches.

The value is real: improving quality maturity eliminates 22% of costs.

Learn from innovators. Presenters will share cost savings and lessons learned.

Related initiatives presented by:

QUALITY 4.0 USE CASE NAVIGATOR

1882)

No formal process to capture non-conformance or failure data.

No formal process to manage risk.

Lack of executive support.

Lack of internal data sharing.

Lack of visibility into supplier quality.

Lack of feedback on product design.

Employee recruiting, engagement, retention.

Employee efficiency.

Product planning.

Product quality.

Cost effectiveness.

Cost effectiveness of quality monitoring.

Environmental impact.

Product safety.

Risk analysis.

Risk management.

Management review.

Requirement tradeoffs.

Product attribute validation.

Virtual testing (product verification and validation).

Physical testing (product verification and validation).

Supplier selection.

End-to-end testing.

Remote testing.

Customer feedback.

Service execution.

Employee training.

The value is real: improving quality maturity eliminates 22% of costs.

Four companies eliminate $99.782% of costs.

L1 Controller: Hardwired devices

L2 Harmonized: Programmable logic controllers

L3 Agile: Industrially connected devices

L4-5 Connected: Sensors that overlay the value chain. Take inspiration from innovators.

There's no silver bullet: each company should focus on implementation effort and impact on business objectives. There's no silver bullet: each company should focus on implementation effort and impact on business objectives.

Companies should prioritize use cases by quantifying the value, and are presented with use cases in six categories across the value chain. Manufacturers are presented with use cases in six categories across the value chain.

Innovators have addressed Quality 4.0 across 33 potential use cases. New product introduction improvement.

Many companies use “sampling plans” to inspect quality – they take place in-process at defined checkpoints and at final inspections, and product – they look to the six points throughout the manufacturing process.

CONSUMER DURABLE GOODS MAKER

9%

Identify in-process variables that improve outcomes for new product introduction improvement.

Correlate operational, warranty, and online marketplace data.

ELECTRONICS MANUFACTURER

9%

Learn from innovators.

Product use cases can drive significant quality, manufacturing, and industry and organization.

• Improve by focusing only on select variables

• Eliminate any that don’t impact quality

• Assess efficacy of screening procedures

PHARMA COMPANY

9%

Quality as #1 use case of the initiative

New chief digital officer (CDO) role

Digital voice of the customer

Robotic process automation

Supply chain connected

Product connected

Operations connected

Quality Connected

Manufacturing Connected

Connected Worker

Connected Customer

Employee Connected

Engagement, retention.

Recruitment.

Employee efficiency.

Product planning.

Product quality.

Cost/effectiveness.

Cost/effectiveness of quality monitoring.

Environmental impact.

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