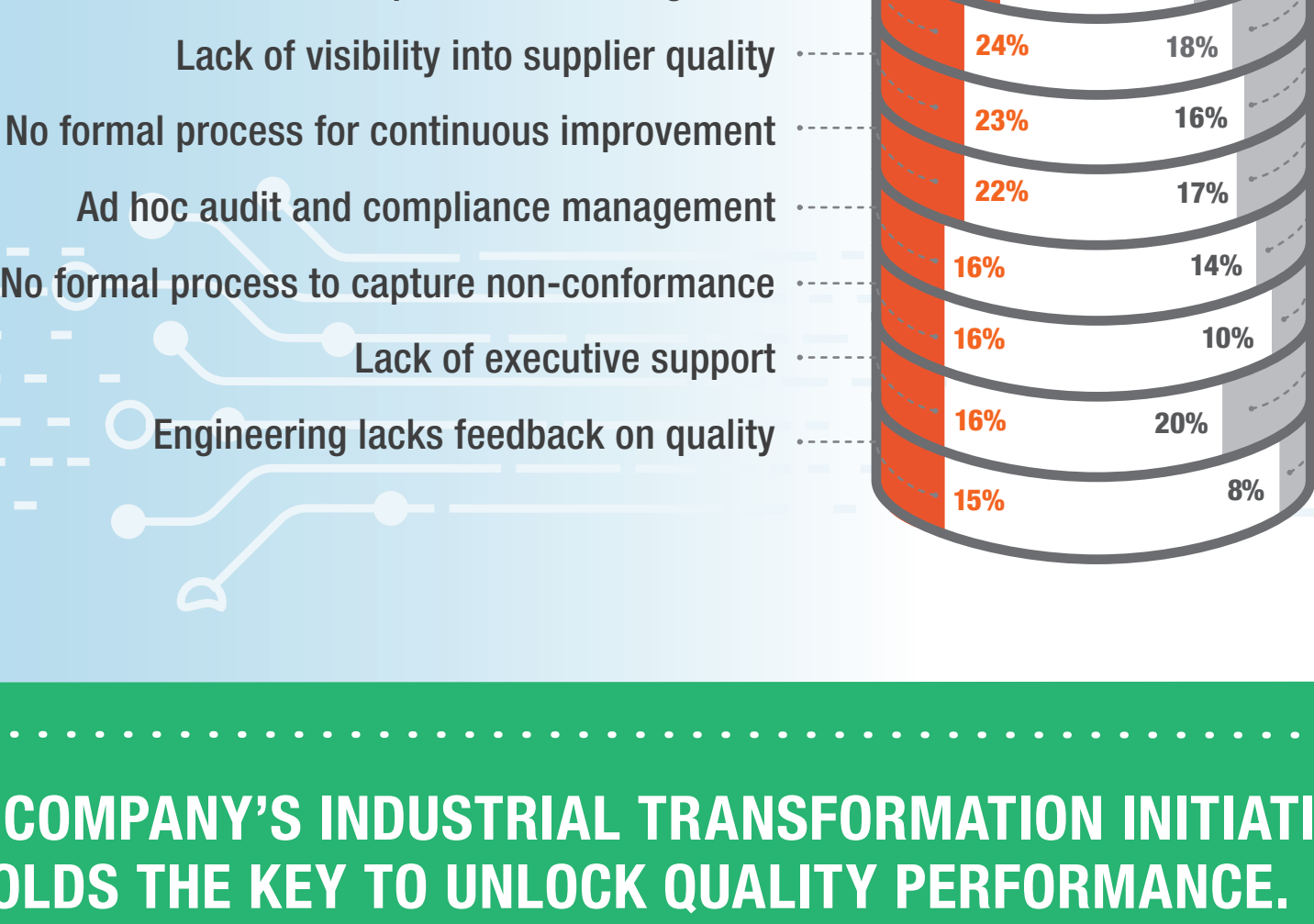


QUALITY 4.0: Critical to Industrial Transformation (IX) Success

QUALITY PROBLEMS HAVE REMAINED FUNDAMENTALLY UNCHANGED for decades. Siloed quality organizations, ineffective technology, and weak data consistently stifle improvement efforts.

CHALLENGES TO ACHIEVING QUALITY OBJECTIVES (n=1882)

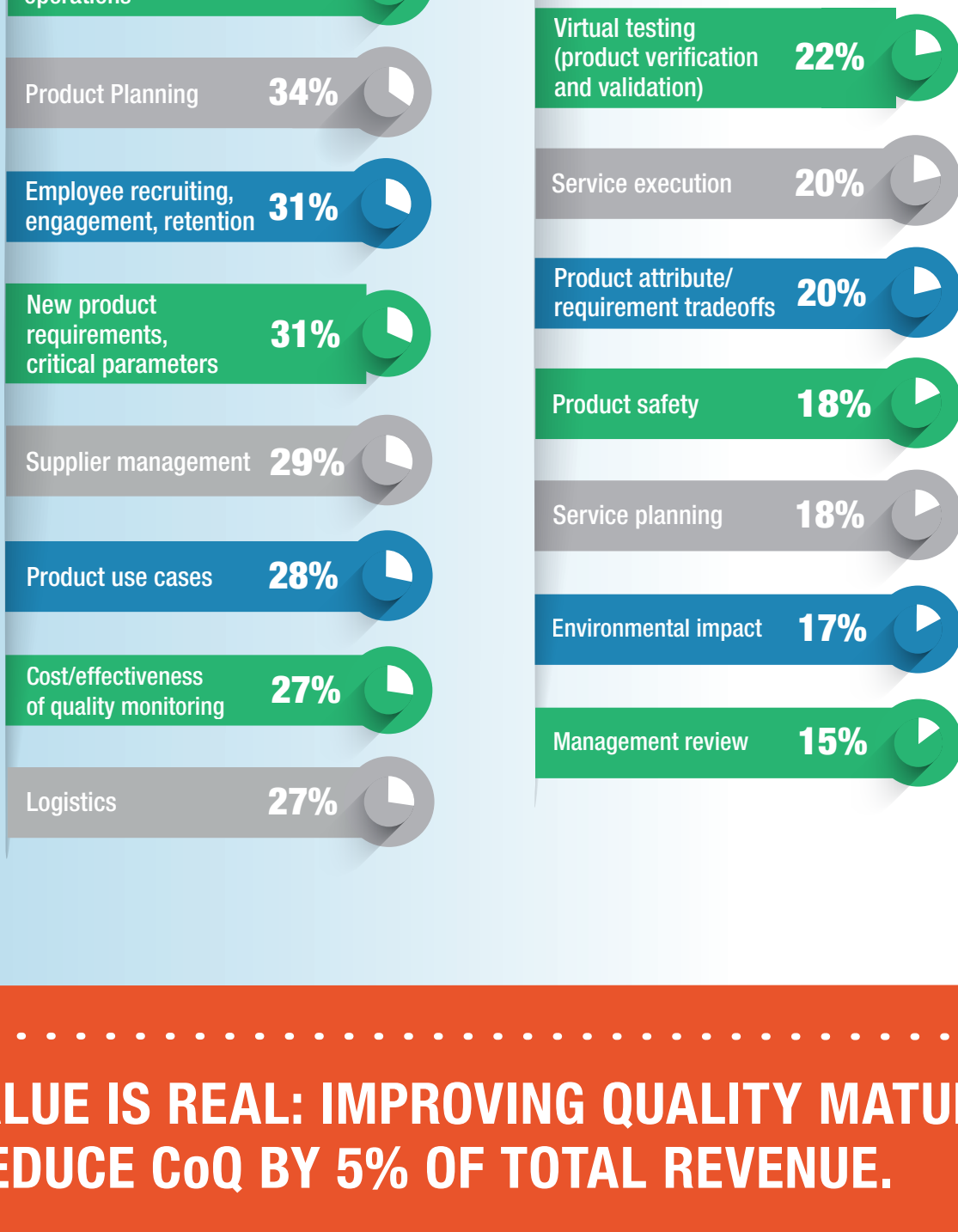


A COMPANY’S INDUSTRIAL TRANSFORMATION INITIATIVE HOLDS THE KEY TO UNLOCK QUALITY PERFORMANCE.

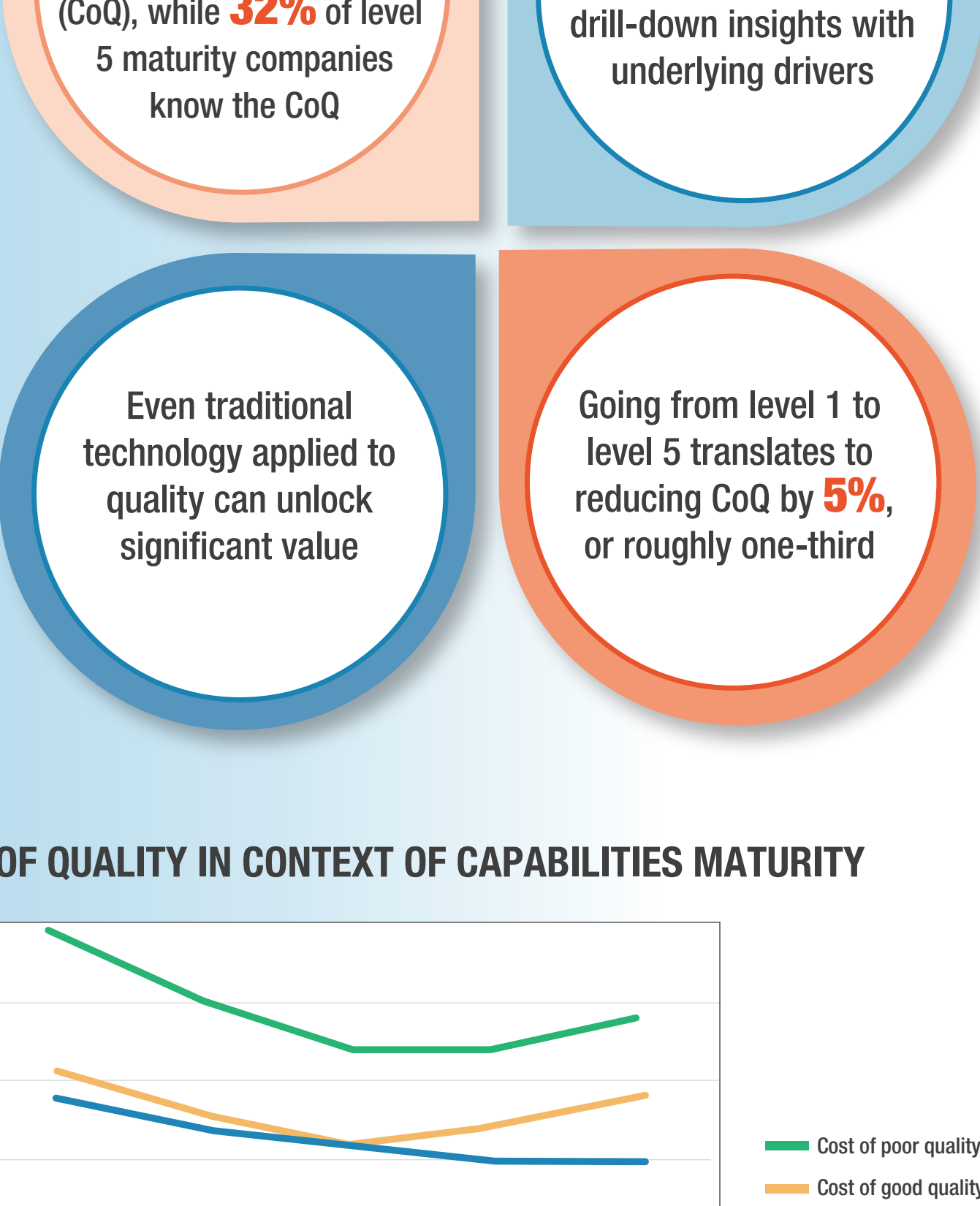
QUALITY is the **LOW HANGING FRUIT** of Industrial Transformation (IX). Early adopters of IX have demonstrated that industrial organizations must prioritize quality, engage quality teams in transformation initiatives, and focus throughout the value chain.

QUALITY 4.0 might be a standalone initiative, but most of the time it **OVERLAYS OTHER DIGITAL TRANSFORMATION INITIATIVES** across the value chain.

GOALS DRIVING QUALITY 4.0



THE VALUE IS REAL: IMPROVING QUALITY MATURITY CAN REDUCE CoQ BY 5% OF TOTAL REVENUE.



COST OF QUALITY IN CONTEXT OF CAPABILITIES MATURITY

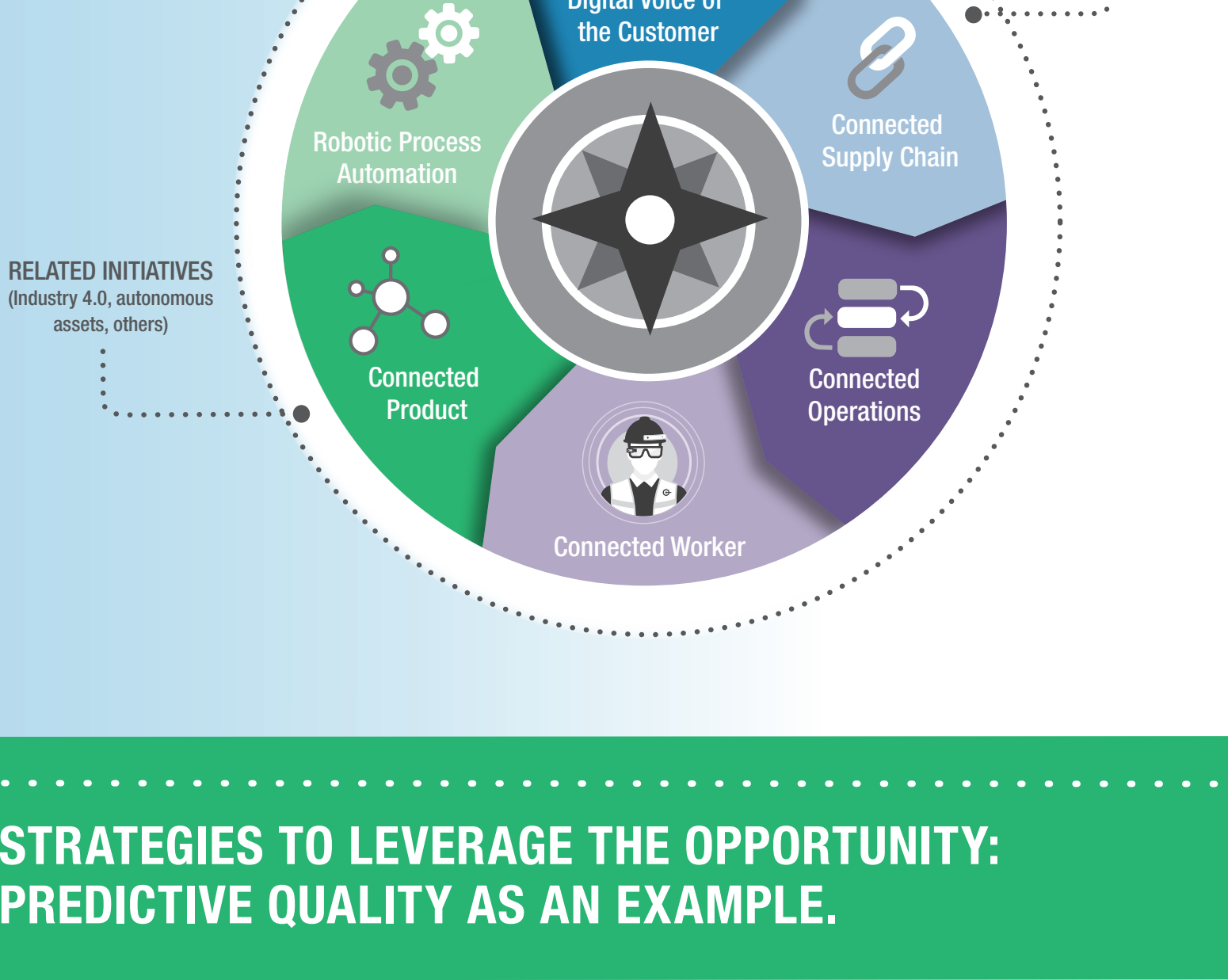


LEARN FROM INNOVATORS

Innovators have addressed Quality 4.0 across 33 potential use cases in six categories across the value chain. Manufacturers should prioritize use cases by quantifying the value, and understanding implementation effort and impact on business objectives. There's no silver bullet: each company should focus on those use cases that drive improvement in its specific industry and organization.

Leaders have demonstrated that engaging widely across the use cases can drive significant quality, manufacturing, and new product introduction improvement.

QUALITY 4.0 USE CASE NAVIGATOR



STRATEGIES TO LEVERAGE THE OPPORTUNITY: PREDICTIVE QUALITY AS AN EXAMPLE.

Many companies use “sampling plans” to inspect quality – they randomly select pieces to inspect in each lot. Sampling plans take place in-process at defined checkpoints and at final assembly. It’s an accepted good practice in most industries, since 100% inspection is expensive and time consuming.

INNOVATIVE MANUFACTURERS APPLY ANALYTICS to data from connected equipment, in-line and off-line quality inspections, and product – they **PHYSICALLY AND VIRTUALLY INSPECT 100% OF PRODUCT** and at many more points throughout the manufacturing process.



3 COMPANIES, 3 PATHS TO PREDICTIVE QUALITY



THE FUTURE IS TODAY: TRANSFORM QUALITY THROUGH INDUSTRIAL TRANSFORMATION INITIATIVE.

QUALITY 4.0 IS NOT A STANDALONE INITIATIVE, but it does permeate and overlay the value chain. Take inspiration from innovators and **LOOK TO THE SIX CATEGORIES OF QUALITY 4.0 USE CASES TO KNOCK DOWN SILOS** and improve performance. Ultimately, strive to lead the company to include quality across all initiatives to achieve results unlike any with traditional quality approaches.

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