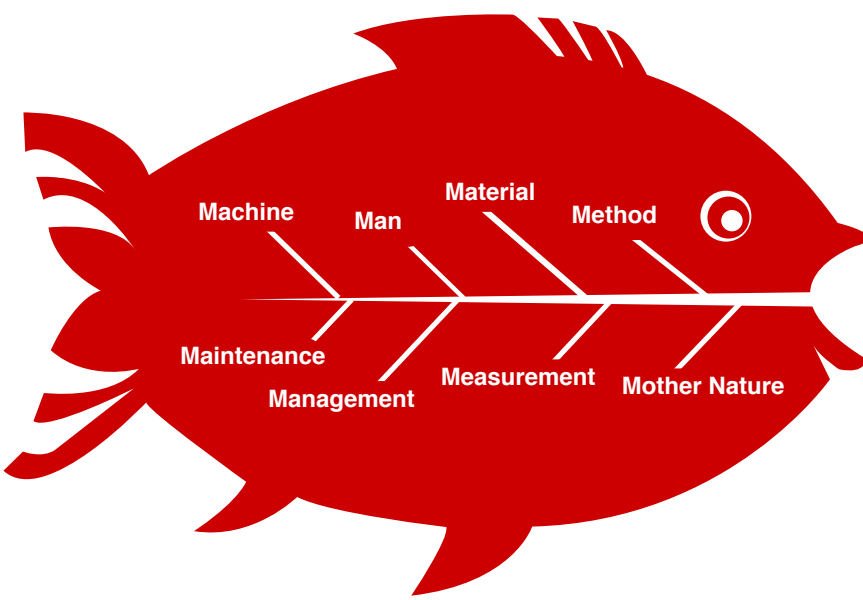


FOR
INTELLIGENT MANUFACTURING



Bringing Ishikawa's 8Ms to the Digital Age

- Manufacturers need new approaches to drive transformative insights from ever-increasing complexity
- Trigger innovation opportunities by applying data science rigor to traditional root-cause analysis
- Lumada Manufacturing Insights empowers manufacturers with a digital innovation foundation essential to Manufacturing 4.0

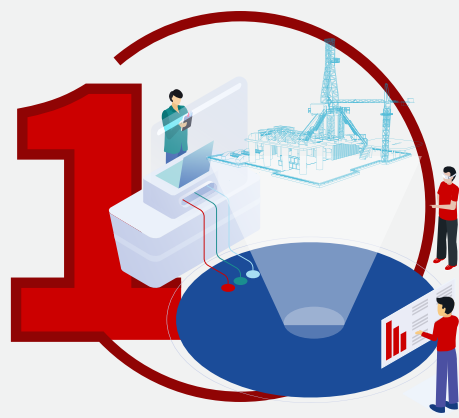


Big and Bold Ideas for Manufacturing 4.0

Deploy big and bold use cases from the convergence of 8Ms to drive competitive advantage

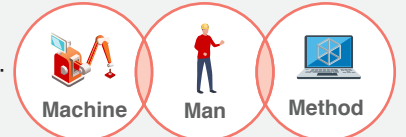


Transformative Outcomes for Competitive Advantage



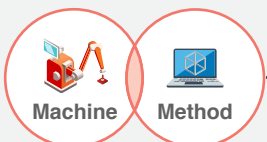
Leading upstream oil and gas company deployed Lumada Manufacturing Insights and integrated it with video analytics to enhance operational economics, improve human safety, and drive continuous improvements

Outcomes: Increased business agility by minimizing rig downtime and maximizing operational performance, driving the transformative vision of the "Rigs of the Future"



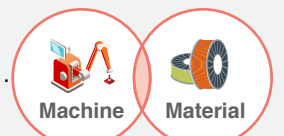
Leading 5G company adopted Lumada Manufacturing Insights to break data silos and reduce process bottlenecks. Starting with machine analytics, they progressively deployed process analytics to gain visibility into root-cause factors

Outcomes: Geared up for 10x increase in new product introductions. Optimized first-pass yield and improved root-cause traceability. Scaled transformative vision towards the "Factory of the Future"



Leading aluminum manufacturer deployed Lumada Manufacturing Insights to drive descriptive and predictive analytics for better production and quality metrics, as well as energy optimization and environmental index scores

Outcomes: Increased machine effectiveness and quality metrics and accelerated bottom-line improvements. Accelerated road map towards transformative vision for "Sustainable Quality and Environmental Stewardship"



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