



How a defect elimination program works and why it could work for you

Michelle Ledet Henley





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President
TMG Frontline Solutions, LLC
The Manufacturing Game®

Michelle Ledet Henley is President of TMG Frontline Solutions, where she has spent the past 25 years helping organizations navigate organizational change using a game-based simulation.

Her enthusiastic facilitation style, along with an innovative workshop design, bring even the most skeptical workers energetically onboard with their site's reliability improvement efforts.

Henley is the co-author of the book *Level 5 - Leadership at Work*, the sequel to the popular *Don't Just Fix It, Improve It.* She is a thought leader on the emerging and often misunderstood topic of defect elimination.



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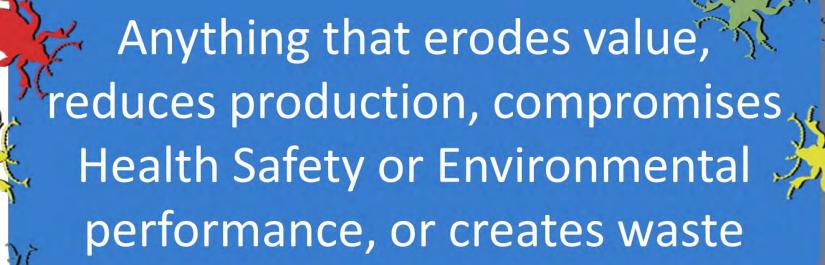
Our workshops, including The Manufacturing Game®, The OilPro Game®, and The Defect Elimination Game®, provide a simulated environment that allows site personnel to take reliability initiatives for a "test drive".

By compressing time and space, these hands-on, exciting events let the participants live the change envisioned by the initiative designers, experience the pitfalls, taste the fruits of success and most importantly discover and embrace their personal role in the entire process.

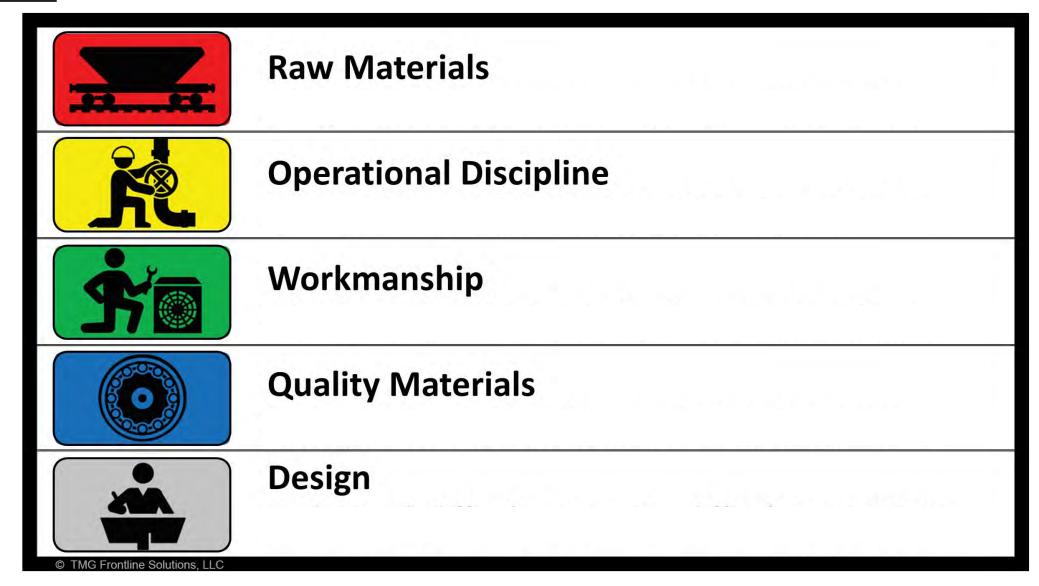




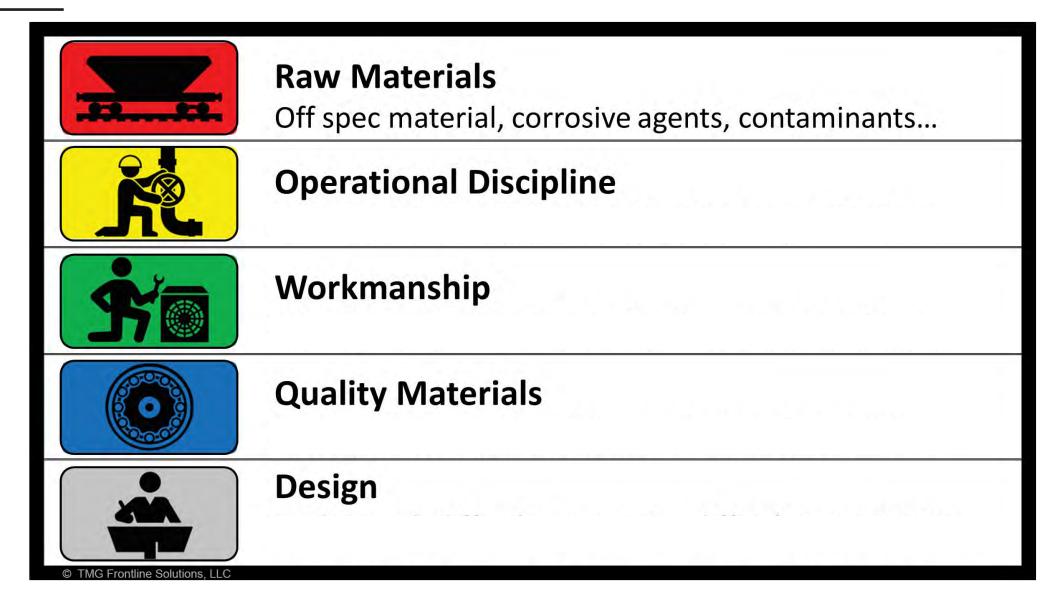
What is a Defect?



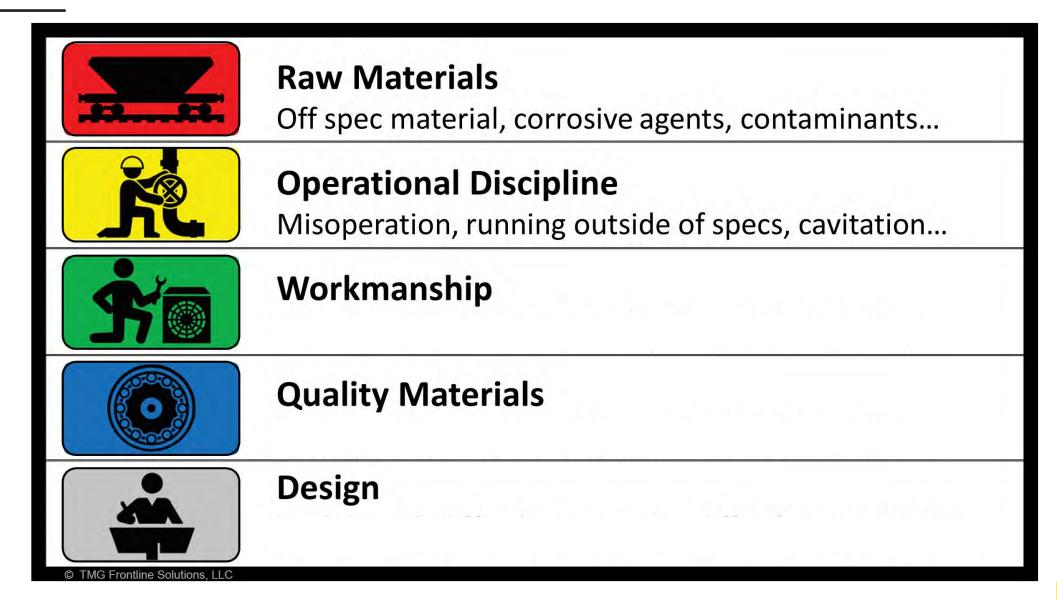
















Raw Materials

Off spec material, corrosive agents, contaminants...



Operational Discipline

Misoperation, running outside of specs, cavitation...



Workmanship

Missing skills, lack of tools, inadequate procedures...



Quality Materials



Design

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Improper storage, poorly manufactured, expired...



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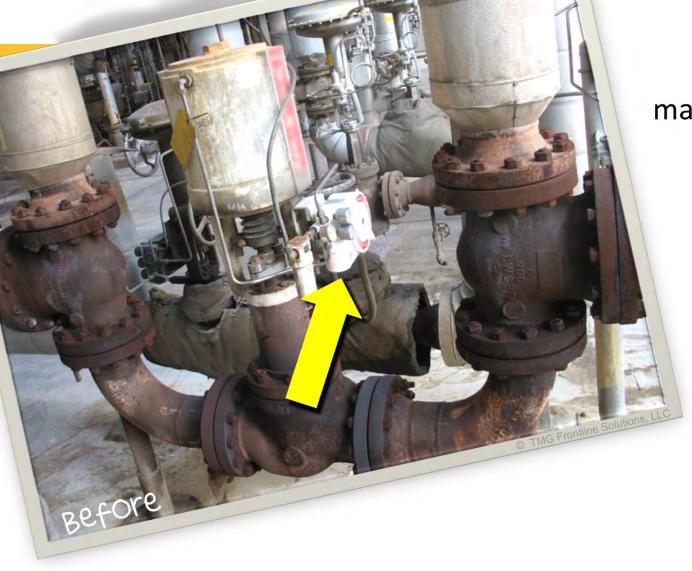
Improper storage, poorly manufactured, expired...



Design

Undersized, difficult to operate, difficult to maintain...





Equipment History

control valve positioner malfunctioned every few months

More Efficient Work

Determine Interval

Pre-order Parts

Receive & Kit Parts

Schedule Work



Equipment History

control valve positioner had not failed in 3 years



Less Work

Excess heat







How involved your front-line workers in reliability improvements?

(Click only one answer)

- Very: They are frequently involved on a regular basis.
- Somewhat: They are occasionally involved.
- Not much: They are not often involved.
- Never: They are focused on corrective work and scheduled PMs.



Reliability Incidents

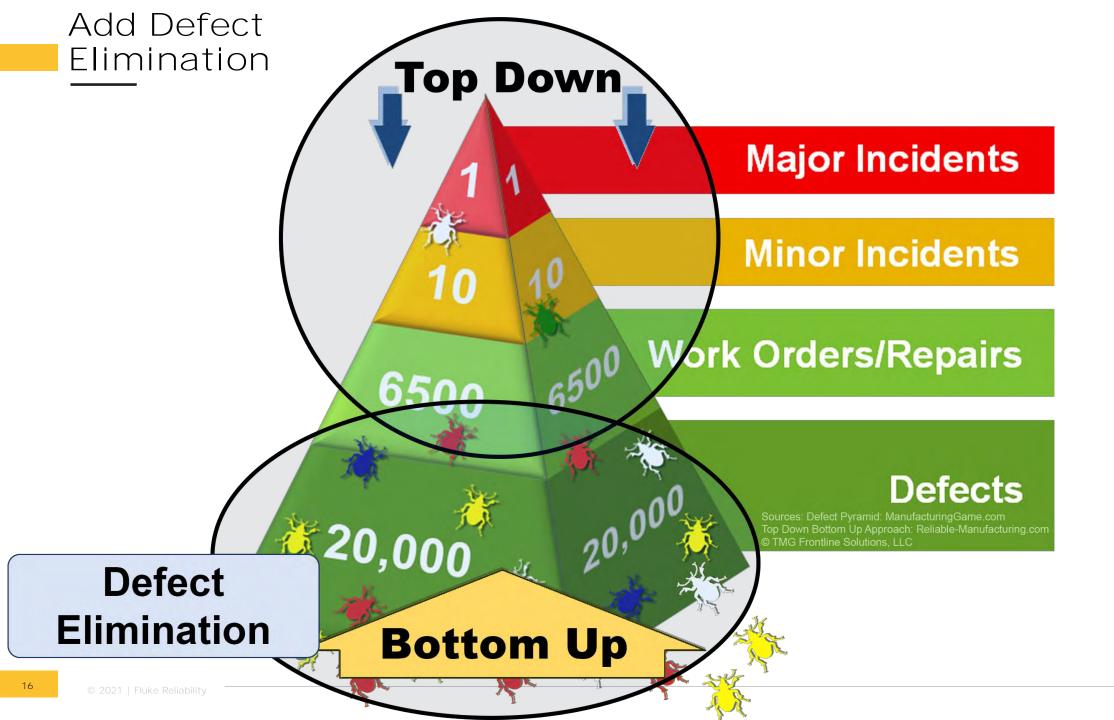




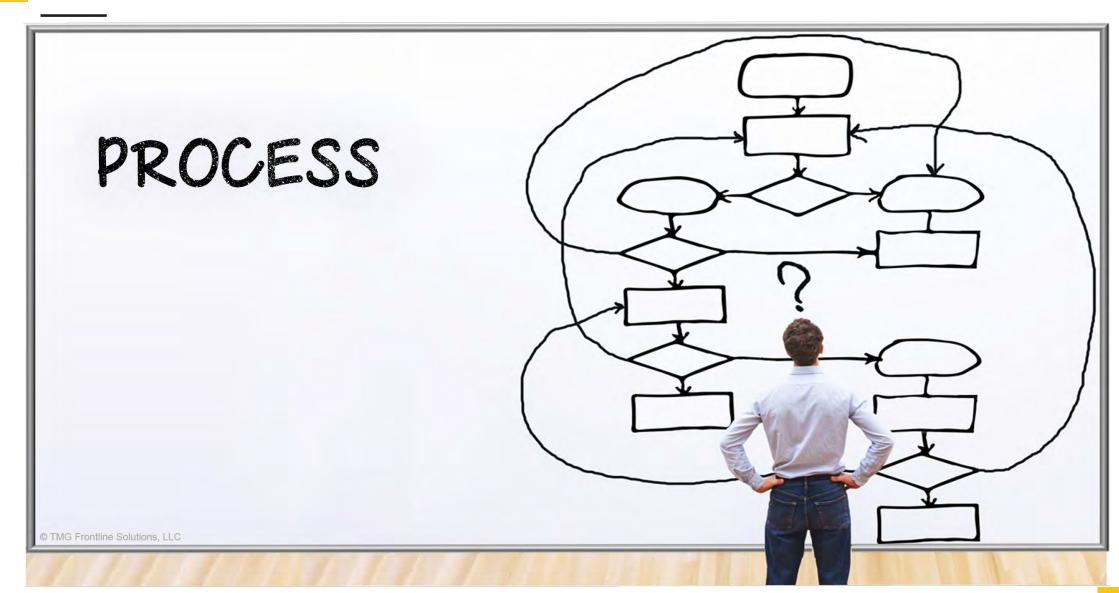
Traditional Approach













PROCESS

° Find a defect

· Verify that it fits boundaries (

· Assemble x-functional team

*Look for defect sources

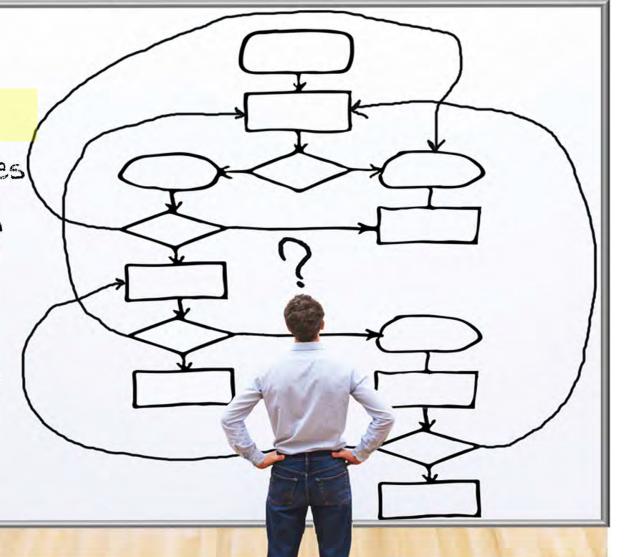
^oEliminate the defect

· Document the improvement

Track the savings

· Tell the stories

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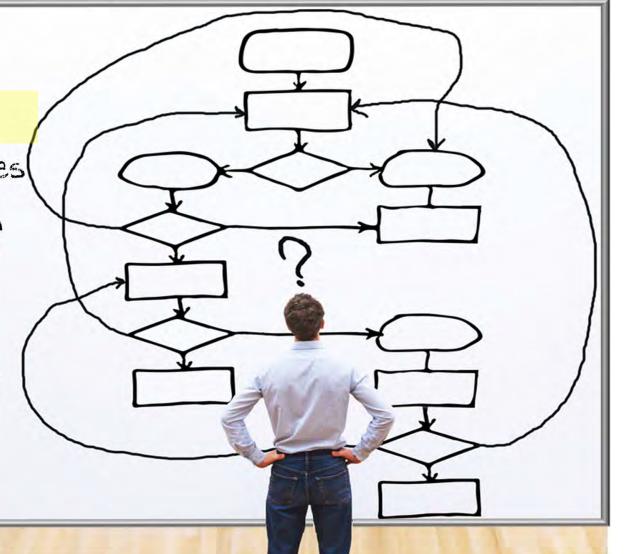
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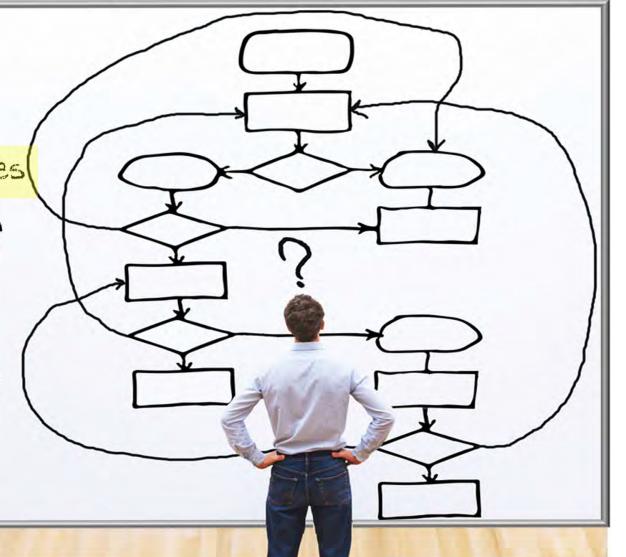
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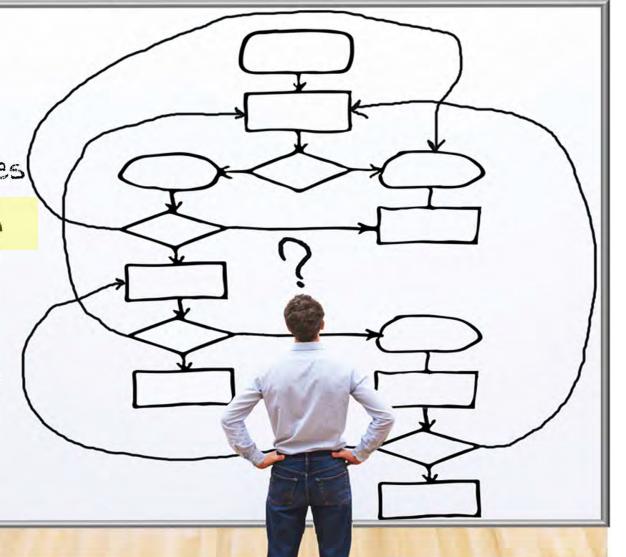
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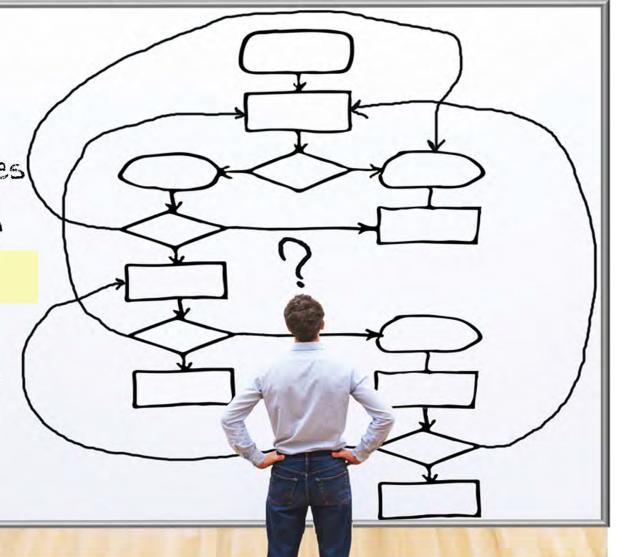
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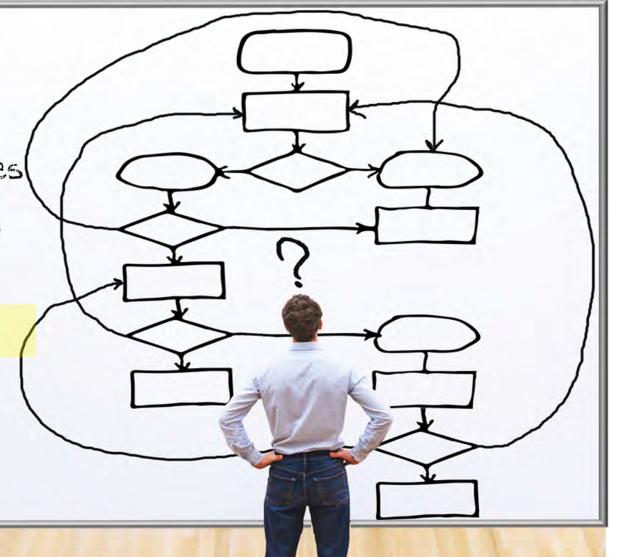
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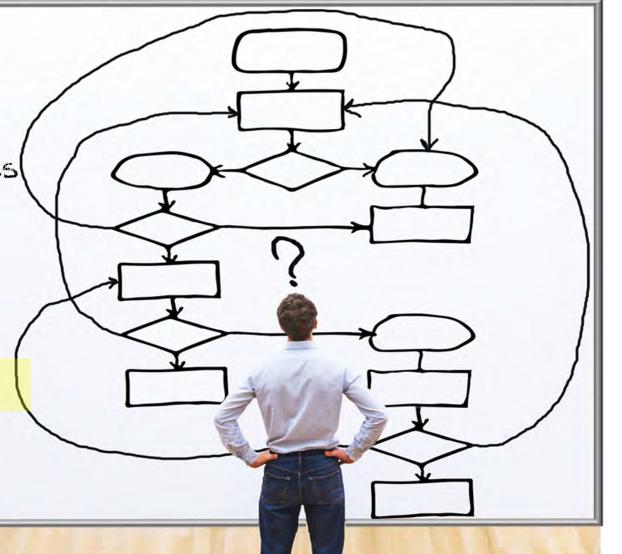
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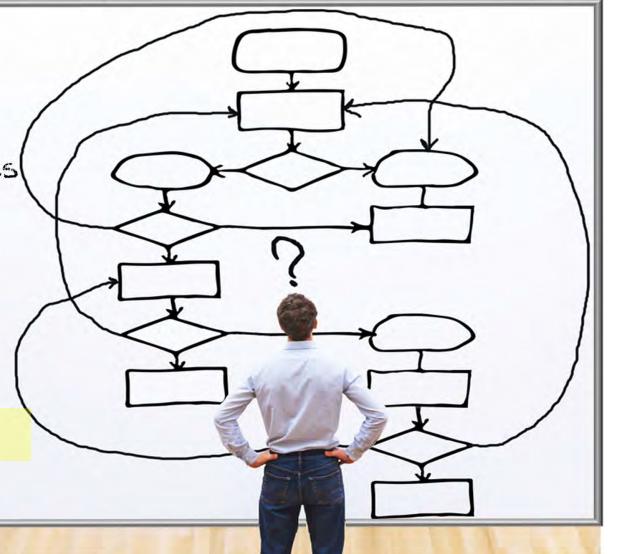
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Simple ≠ Easy



POLL QUESTION No. 2



What is your primary challenge with implementing reliability improvements? (Click only one answer)

- Management support (funding and other)
- Lack of technical knowledge or skills
- Too busy with reactive work
- Availability of the equipment
- Other/not sure

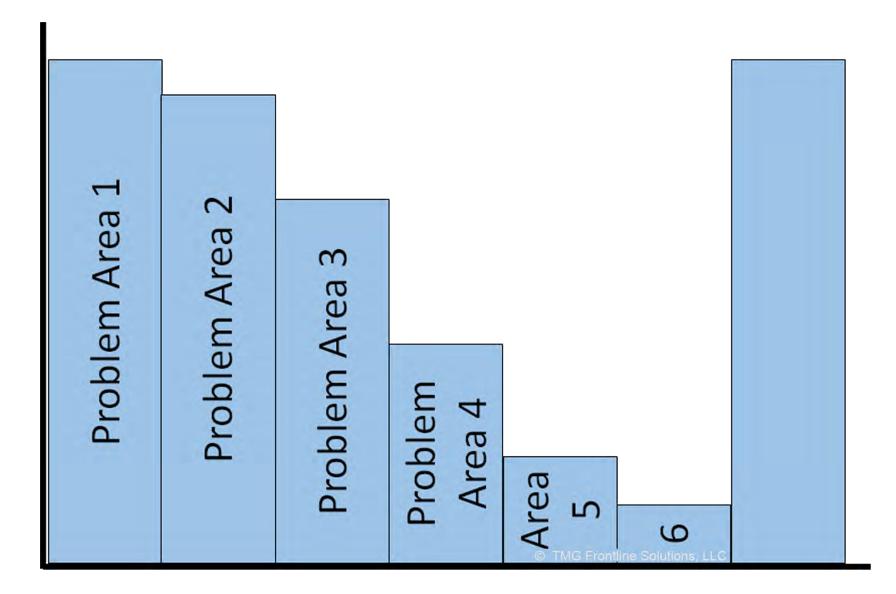


Common Pitfalls

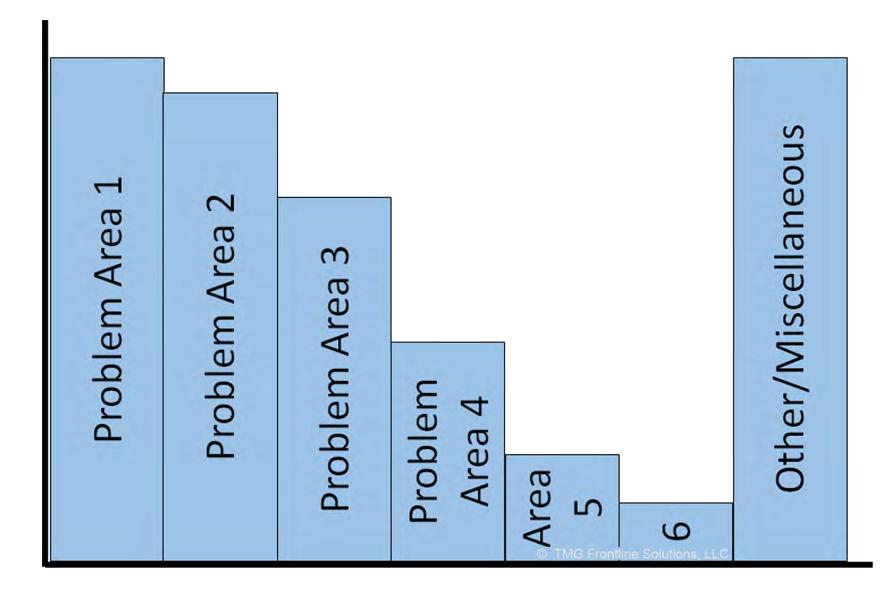
Projects are too big



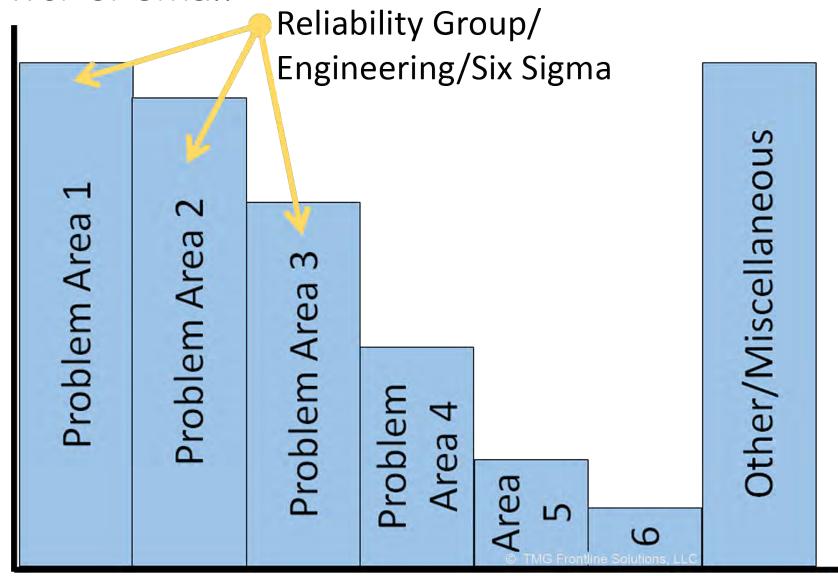














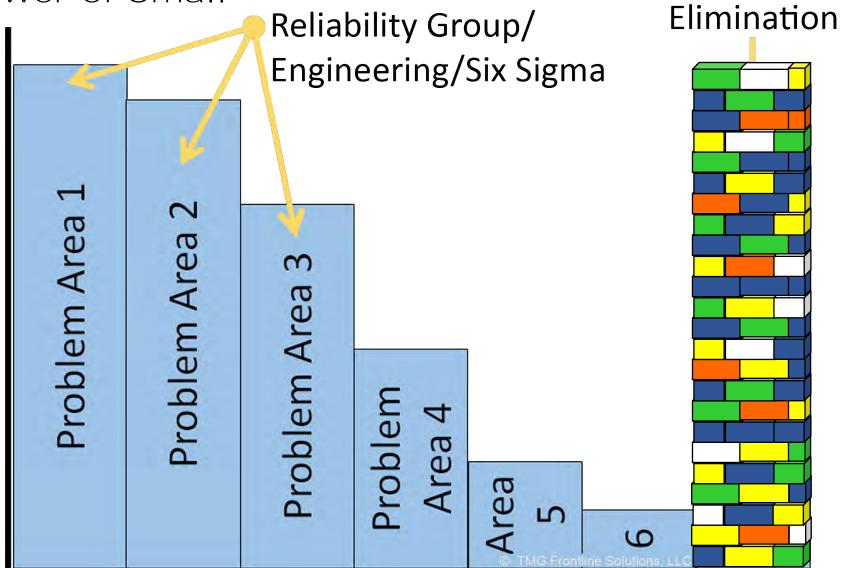
Defect The Power of Small Elimination Reliability Group/ Engineering/Six Sigma Other/Miscellaneous Problem Area **Problem Area** 3 Problem Area Problem Area

2

9



Defect

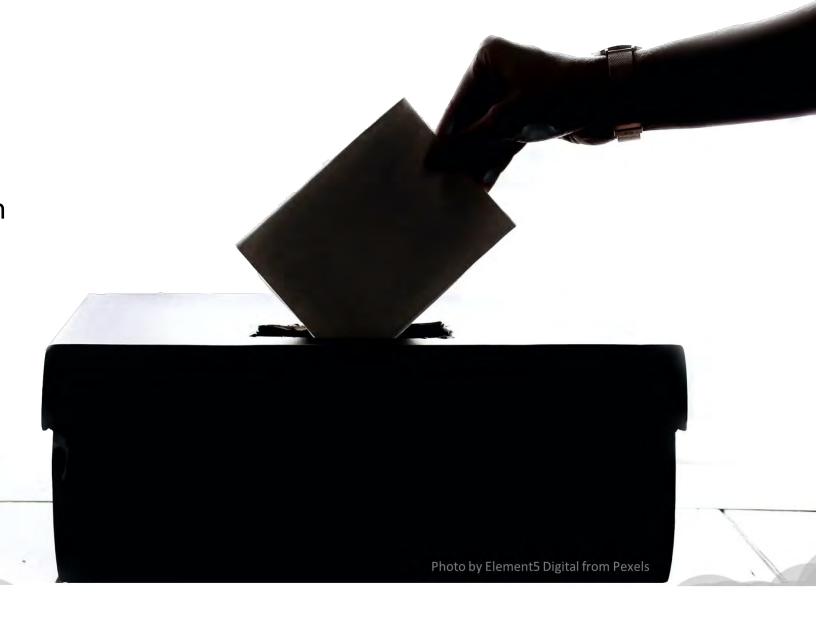




Common Pitfalls

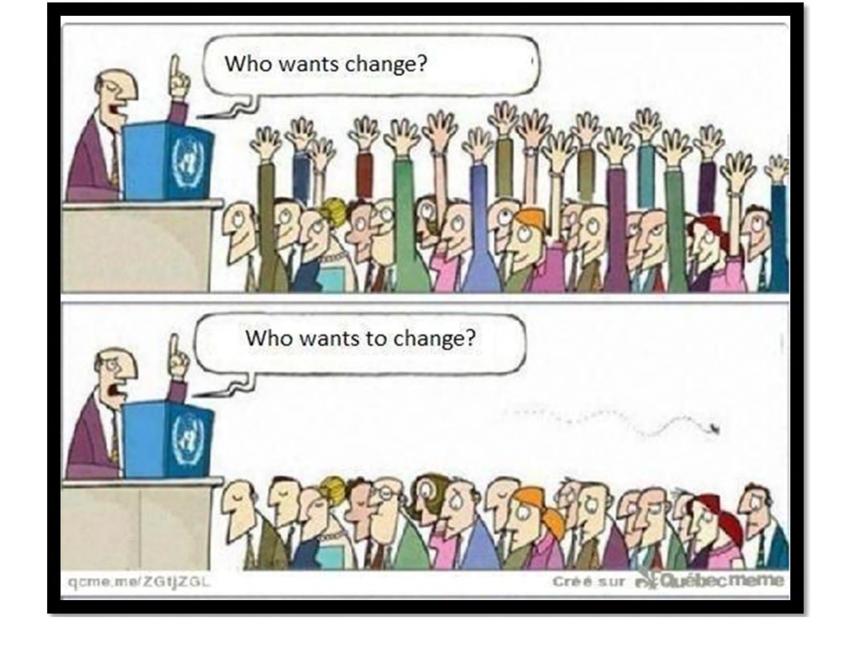
Projects are too big

Suggestion box approach





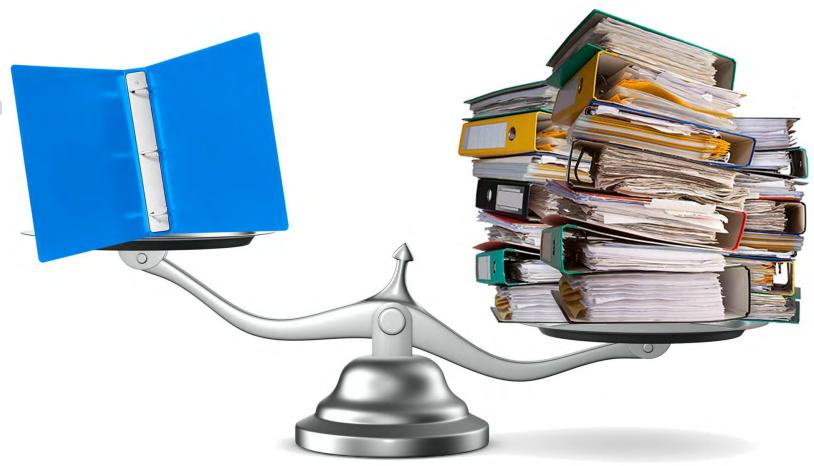
Change





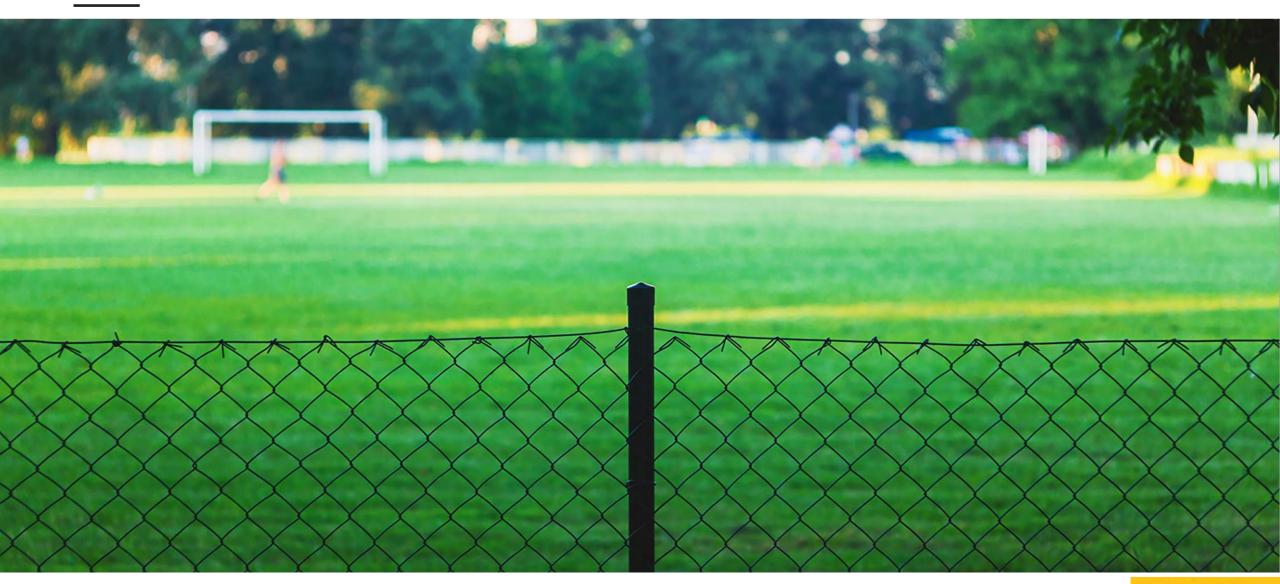
Common Pitfalls

- Projects are too big
- Suggestion box approach
- Providing too much or too little structure





Appropriate Boundaries





Reliability

Sample Boundaries



Area of Focus

Improve Reliability
Not JUST a fix – Must be an improvement



Actions, not recommendations

REAL projects
Implemented & driven by the team members



Budget

No capital money, \$5,000 max





Management of Change EPA rules Others
Customer agreements OSHA rules

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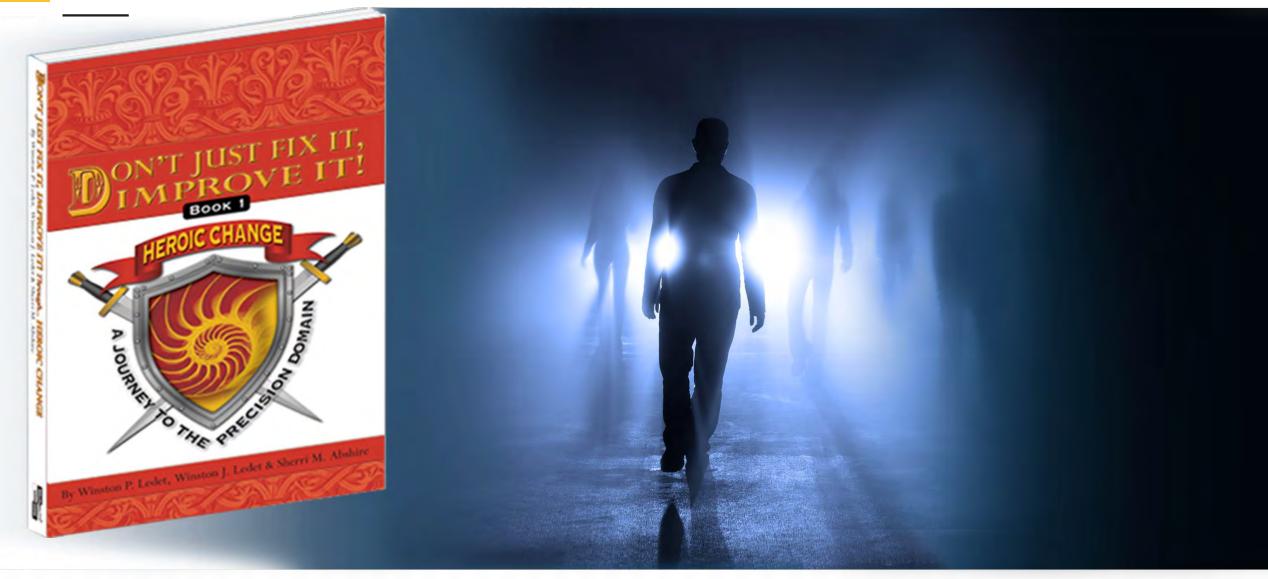
Common Pitfalls

- Projects are too big
- Suggestion box approac
- Providing too much or too little structure
- Going it alone





Shadow Network





Common Pitfalls

- Projects are too big
- Suggestion box approach
- Providing too much or too little structure
- Going it alone
- Overly focused on the numbers





Tell the Proactive Hero Stories

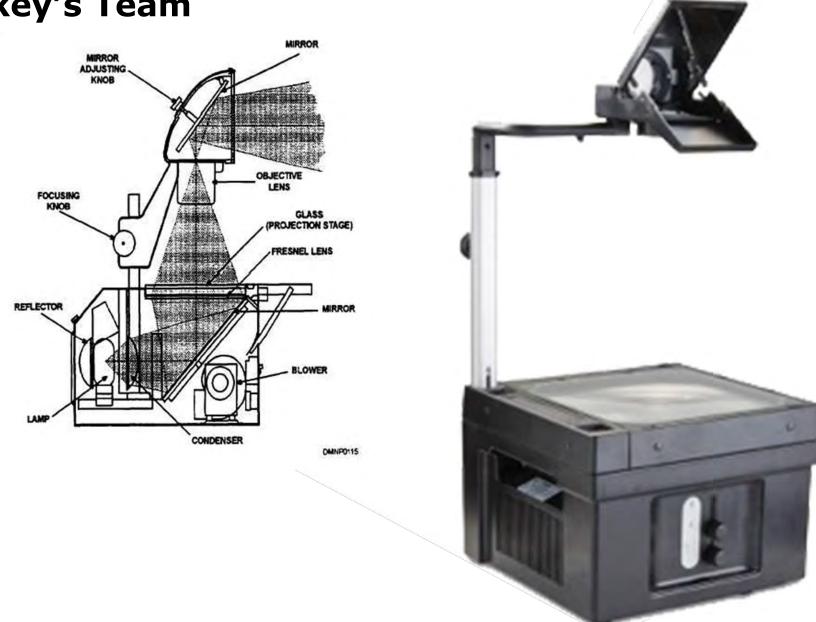
This is
Your Brain

This is Your Brain on STORY





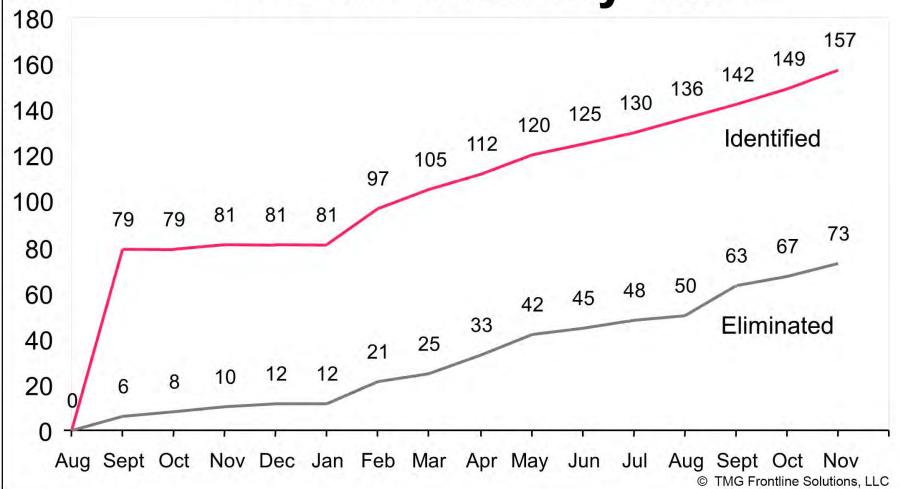
Mickey's Team





Results

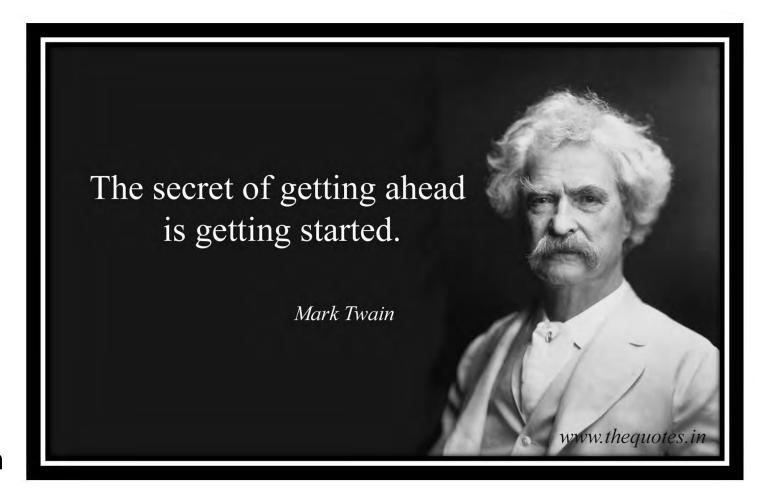
Defects Identified and Eliminated B-253 Reliability Team





Common Pitfalls

- Projects are too big
- Suggestion box approach
- Providing too much or too little structure
- Going it alone
- Overly focused on numbers
- Let the pursuit of perfection get in the way of progress





Questions

QUESTIONS?



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Thank you!

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President, TMG Frontline Solutions, LLC
The Manufacturing Game®



Next webinar March 17: Get more value from your CMMS (Part 1)

BEST PRACTICE WEBINAR

Wednesday, March 17, 11 a.m. ET

Get more value from your CMMS (Part I): Best usage models for business impact and user adoption

Some of the most game-changing features and usages of a computerized maintenance management system (CMMS) often get overlooked. That's a drag on your ROI and can be rectified by simple instruction and training.

In this webinar, **Michael Mills**, a senior solutions engineer for Fluke Reliability, breaks down a typical company's CMMS usage model. Then, he demonstrates how easy it is to add inventory control, condition monitoring, mobility, and other functions to your CMMS practices. Multiple people on the team stand to gain from small changes as system visibility and familiarity increases. This is part one of a two-part, CMMS-focused webinar series.



Michael Mills



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Reliability

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