

# Only the Reliable Will Survive

Presented By: Joe Lochard

# In The Last 15 Years, 52% of Fortune 500 Companies Have Disappeared

## CONSIDER THIS...

**1955**

Average life expectancy  
**75 years.**

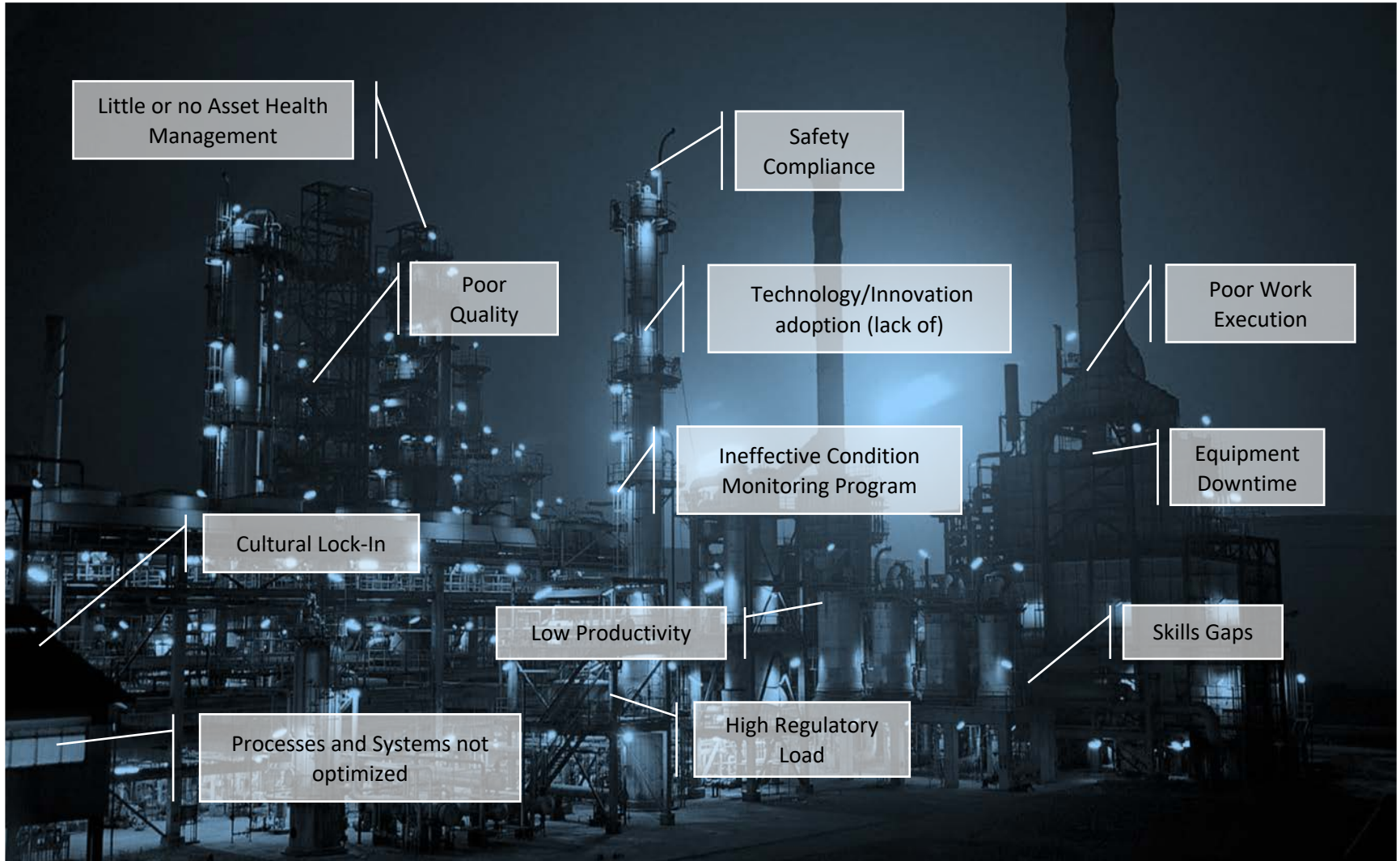
**2015**

Average life expectancy  
**15 years and declining\***

Source: Richard N Foster and Sarah Kaplan-Why Companies That Are Built to Last Underperform the Market-2001



# Achieving a Reliable State Faces Many Challenges





# So What Does Good Reliability Look Like?

Leading Organizations Score...

**46%**

Less on MAINTENANCE

**58%**

Less on STORES

...than **Average** Performers



# How Does Good Reliability Behave ?

## Leading Organizations Score...

**90%**

Higher in Foundational Elements

**117%**

Higher in Condition Based Maintenance

**115%**

Higher in Reliability Engineering

**61%**

Higher in Lubrication

**85%**

Higher in Planning and Scheduling

**103%**

Higher in Asset Health Management

...than **Average** Performers



# Organizations Want/Need The Reliable Experience

## So What is the Common Thread?



Aligned  
Business  
Processes



Skilled  
Workforce



Detailed  
Equipment  
Records



Consistent  
Work  
Execution

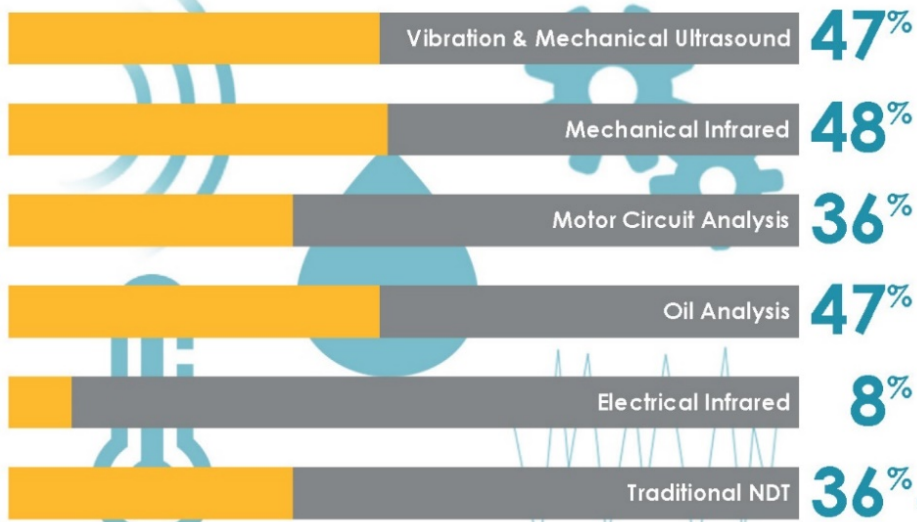


Improved  
Equipment  
Availability



Culture Of  
Continuous  
Improvement

They have **more equipment covered** with -



and **less equipment covered** with



**Time-Based Replacement PMs**

**15%**

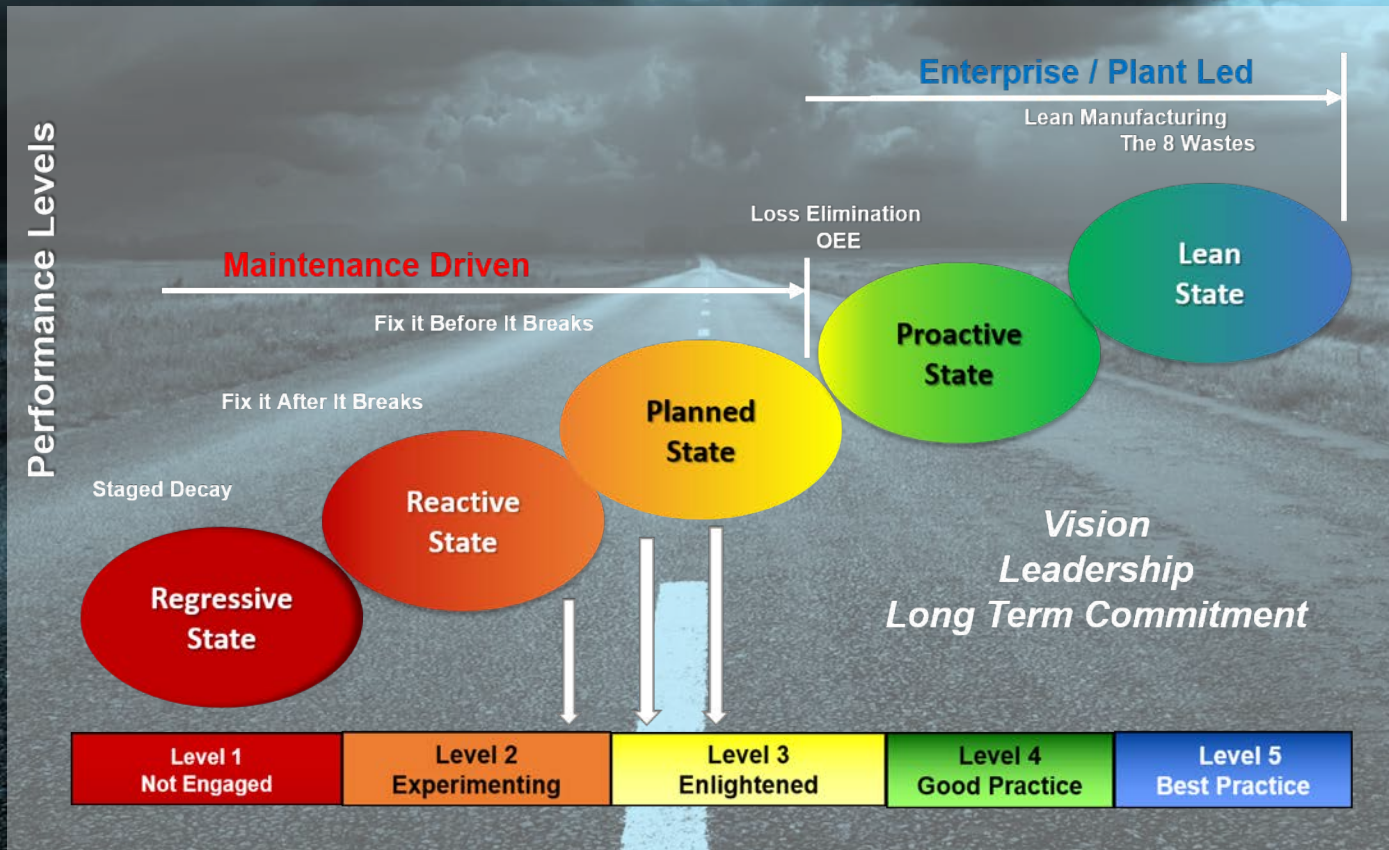
than **average** performers.

Source: John Schultz, EPRI, CSI, HSB, Solomon, SAE, PIMA/TAPPI,CMA, AIST



# The "Reliability" Journey

(Across Process, Culture, Technology)



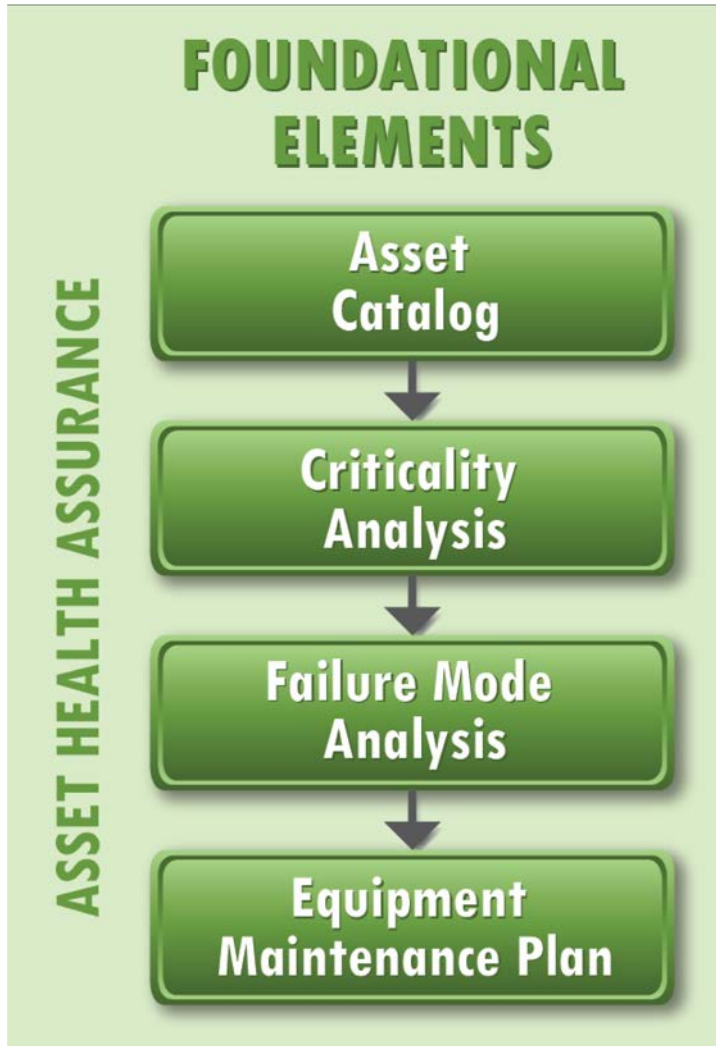


# How Can We Help You Get There?



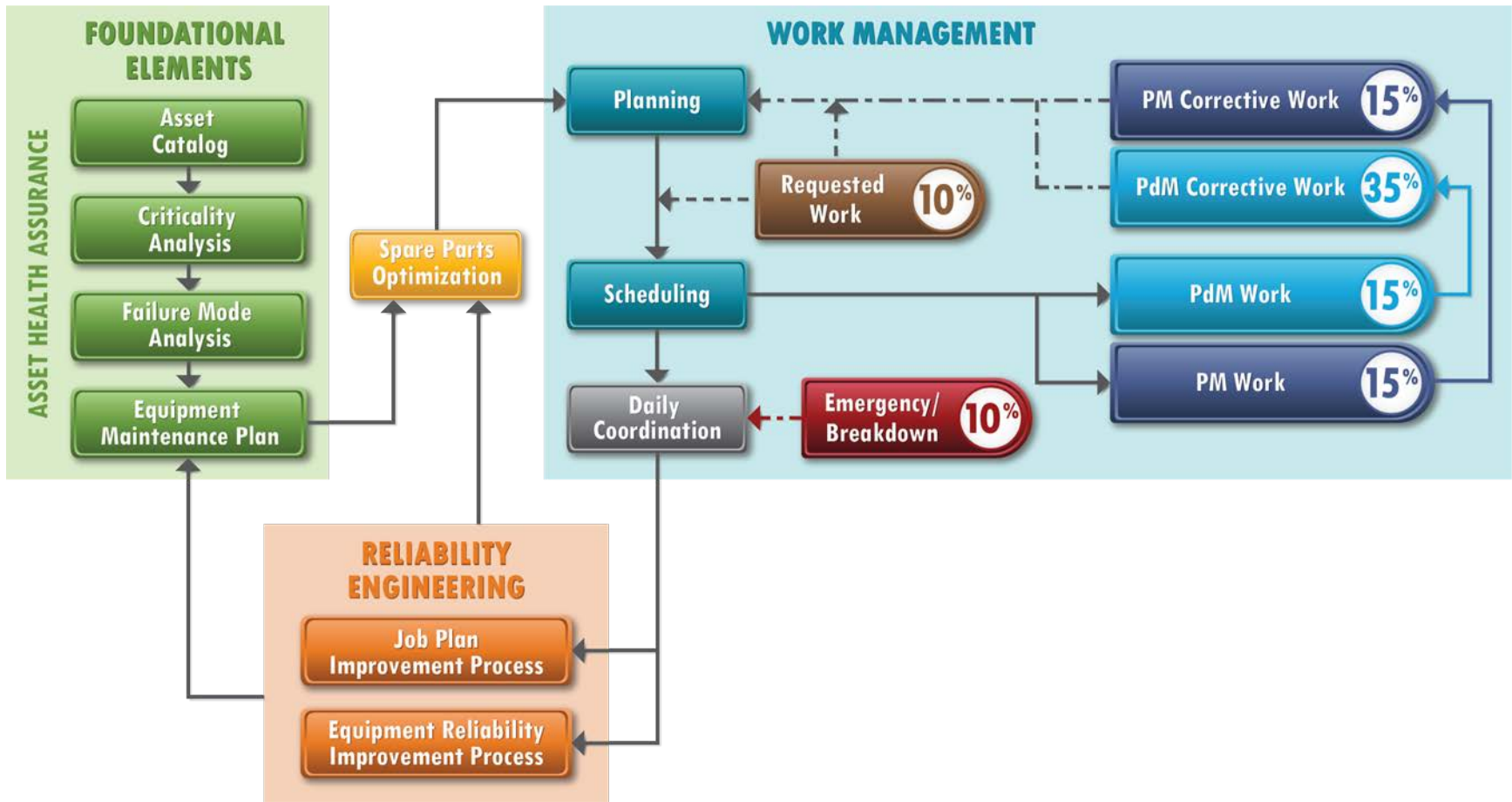
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# Foundational Elements – Today



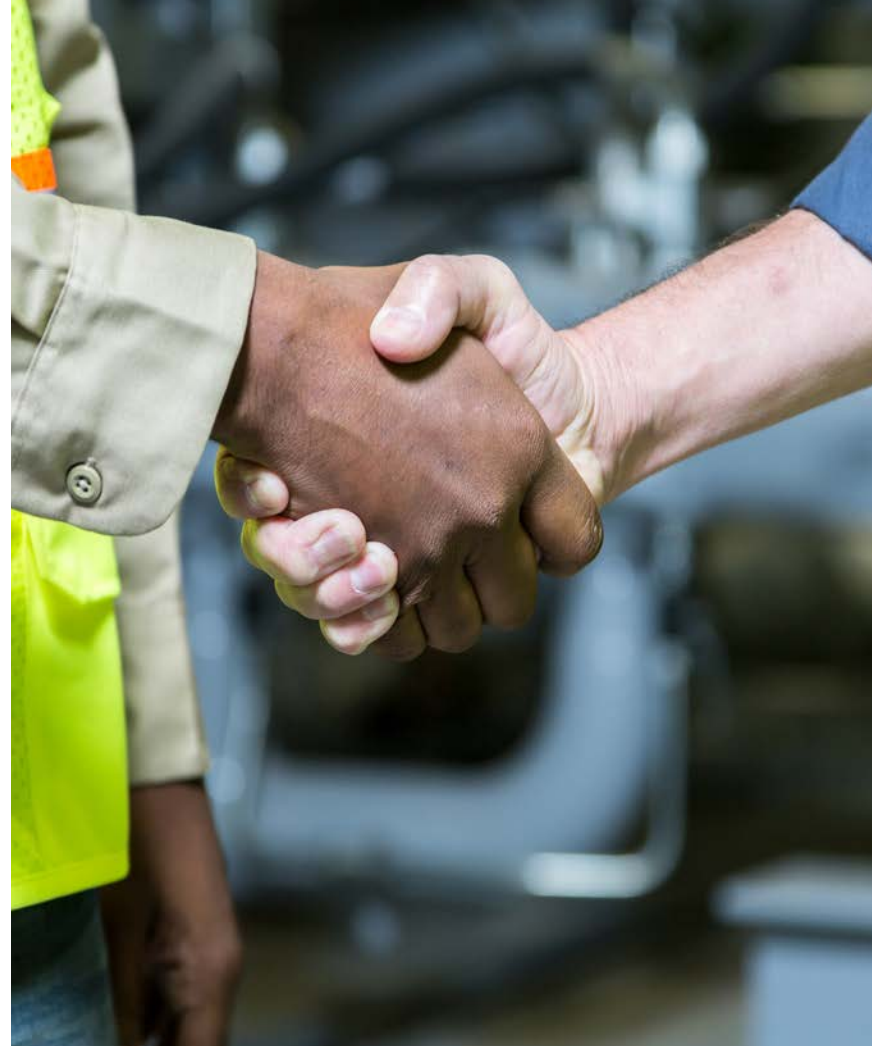
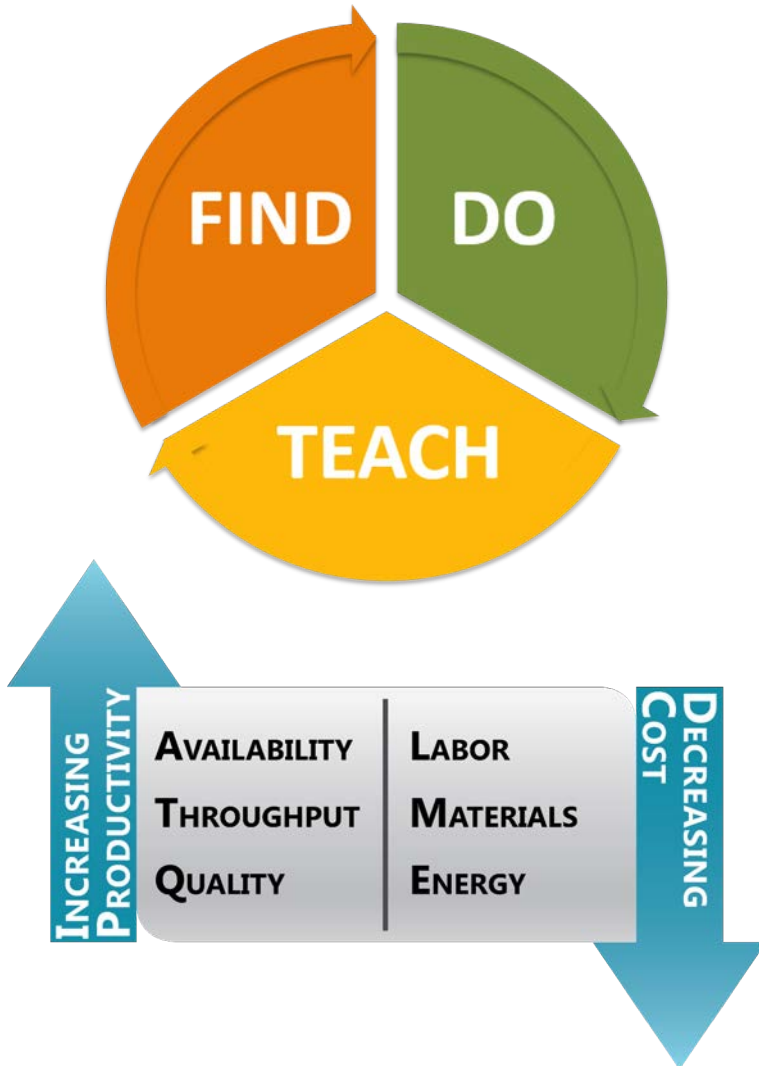
- Over 60% of sites that we benchmark do not have an actionable Asset Catalog (ISO 14224 Standard)
  - They don't know what they own
- Over 70% of sites have insufficient asset criticality
  - They cannot distinguish what is important beyond top 10-20%
- Over 80% have not mapped components to failure modes and failure modes to inspections
  - They don't know why they are performing the tasks that they are performing
- Over 90% have not optimized Equipment Maintenance Plans
  - They are often performing the wrong tasks, at the wrong frequencies, with little or no work execution standards

# Proactive Workflow Model





# So How Do We Deliver Customer Value?



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# Delivered Through Integrated Asset Reliability & Protection Solutions

## PEOPLE



### Work Execution Management

- Planning & Scheduling
- Job Plan Improvement
- Develop Work Procedures
- Spare Parts
- BOMs



### Routine Equipment Care



### Recruiting

- Talent Sourcing
- Talent Screening
- Direct/Contract Hire



### Workforce Development

- Training
- Coaching & Mentoring

## PROCESS



### Asset Health Assurance

- Asset Catalog
- Criticality
- Doc & BOMs
- FMEA (AHA + RCM)
- PM Writing
- EMP Design/Implementation



### Reliability Engineering

- PM Evaluation/ PM Optimization
- Root Cause Analysis
- Reliability Centered Maintenance
- Failure Reporting and Corrective Action System
- Spare Parts

## TECHNOLOGY



### Full Suite of CBM Applications /Technologies

- Vibration
- Infrared
- Ultrasound
- Oil Analysis
- Motor Circuit Analysis
- Advanced Diagnostics
- Sensory Inspection
- Inline Monitoring



### Engineered Products & Services

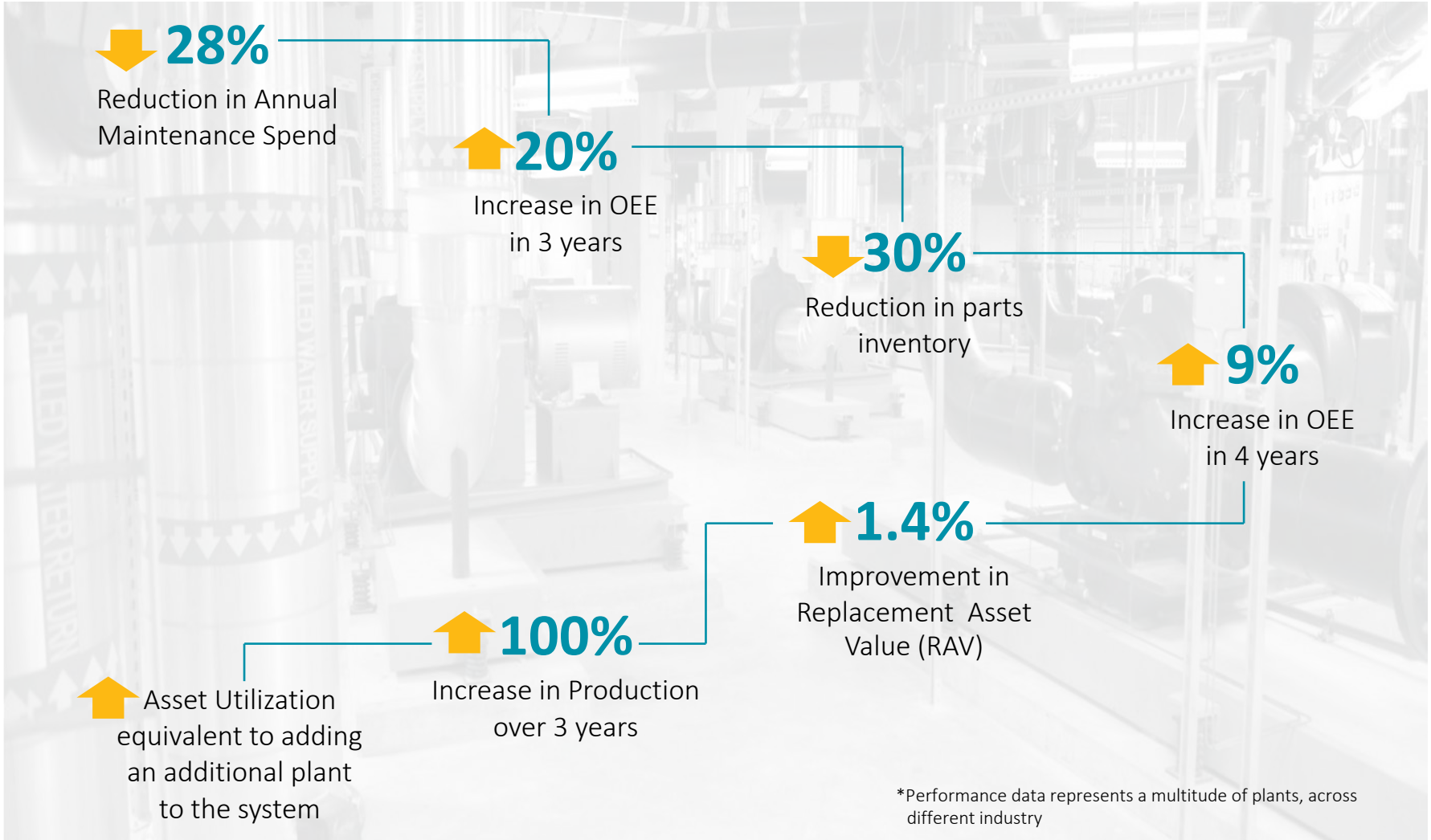
- Lubrication Systems
- Emissions
- Controls
- Oil and Fluid Filtration



### Reliability Management System (iReliability™)

Change Management & Leadership Alignment

# Reliability Driven Plants Deliver Results





# So Where are You on Your Reliability Journey?



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