

OEE Playbook: Four Maneuvers to Score Higher Points



Recording in Progress

This webcast is being recorded.

You will receive a link to the recording so you can replay it or share it with colleagues.





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Q&A Instructions

Viewing Product Marketi	- All (0)
 Event Controls Q&A All (0) 	
Type Question Here	
Send Send Privately Viewing Product Marketing's applications	Type your Questions here!



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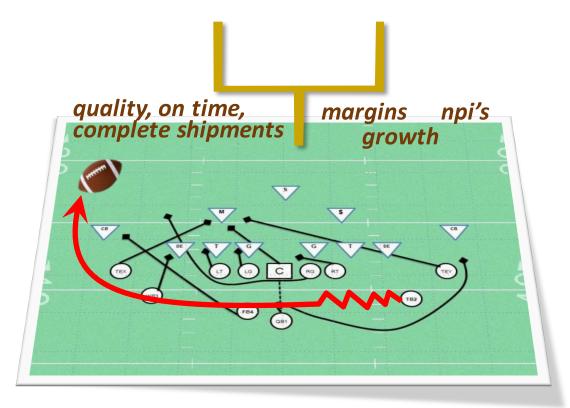
Host and Guest Speaker







Why do we measure and report OEE?



Drive past the line of scrimmage to the goal.

- Express performance quickly, easily
- Starting point to establish priorities

- Measure progress on initiatives
- Correlate actions

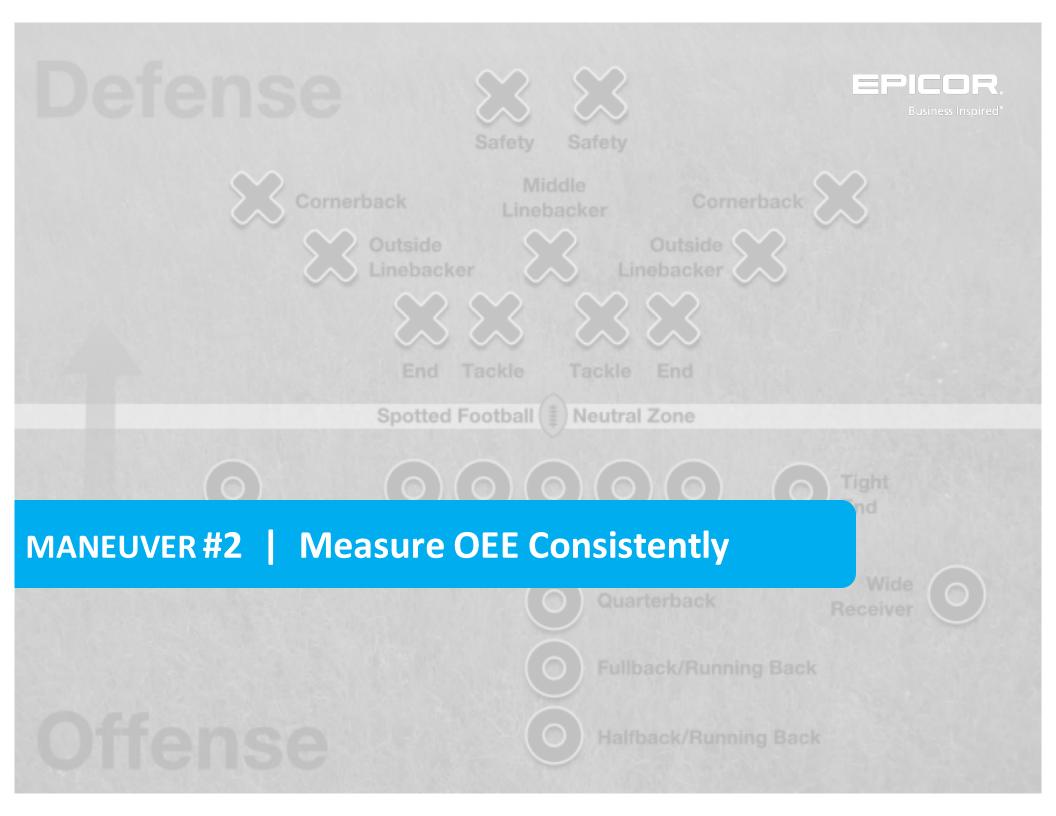


The "1% Rule" → \$38 Company \$100-250m

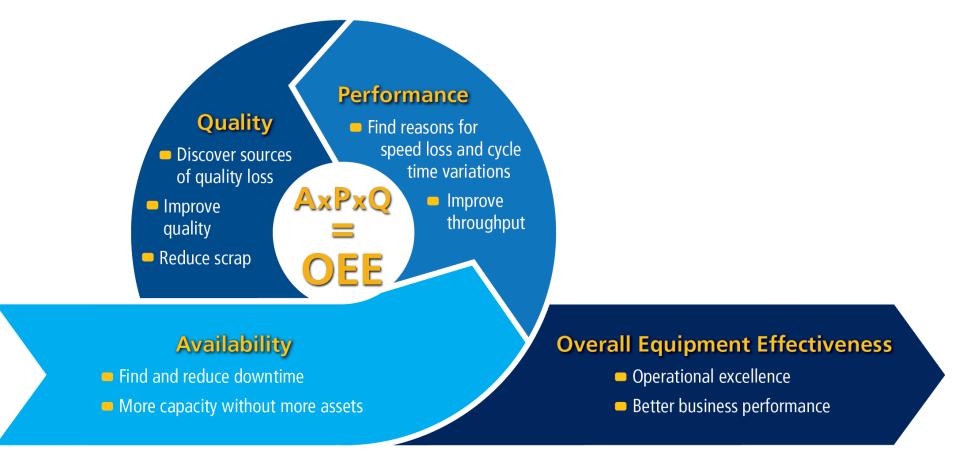
Value Lever	Valu	e Potential	Financial Statement Indicator
Labor Savings	\$74,038	\$ 423,077	COGS / SG&A
Inventory Savings	\$58,277	\$ 333,013	Inventory / COGS
New Revenue Margin Contrib.	\$81,018	\$462,962	Gross Profit
Expected Revenue Uplift	\$324,074	\$ 1,851,85 1	Revenue
One Time Incr. in Working Cap	\$388,515	\$ 2,220,088	CapEx / Assets
Just a 1% Increase in OEE	~\$1.14m	\$ 6,510,048	to the business







What is OEE?







"Companies using different OEE formulas can have widely different OEE scores even though actual performance

maybe very similar."

Littlefield, Matthew. "Understanding the OEE Formula - Part 1." LNS Research Operational Excellence Blog | Quality Management, Manufacturing Operations, and Industrial Energy Management. Last modified February, 2012.

http://blog.lnsresearch.com/blog/bid/125563/Understanding-the-OEE-Formula-Part-1.



Are we inadvertently "hiding" loss?

AVAILABILITY

• Hidden downtime?

PERFORMANCE

- Correct planning / standard rates?
- Correct throughput and rework counts?

QUALITY

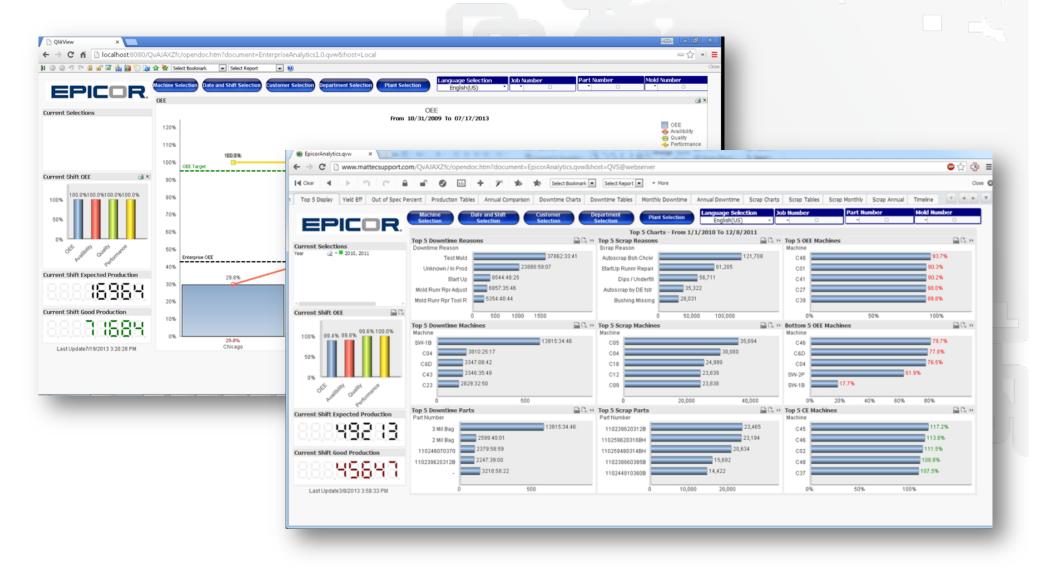
- Are scrap rates acceptable?
- Do we know the reasons for quality loss?







Uniform reporting ...





Consistent, accurate analysis

UTILIZATION ANALYSIS



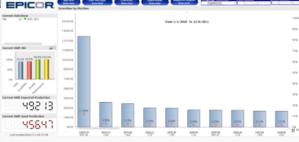
DOWNTIME ANALYSIS

OUT OF SPEC ANALYSIS



SCRAP ANALYSIS





YIELD EFFICIENCY

Countient Process Department (Depart Weak)

Heth





"Operational success depends on the ability to measure. The more datadriven, the better your company performs."

Aberdeen Group. "Three Simple Steps to Unlocking the Value of Manufacturing Data." Last modified July, 2013. http://v1.aberdeen.com/launch/report/perspective/8603-AI-manufacturing-data-value.asp?lan=US.



Data Collection Methods

Manual

- Varying detail levels
- Often not event focused, but summary
- May be entered manually into spreadsheet or other system
- Low skill/cost to implement
- Cumbersome paperwork
- Difficult to attain accuracy, detail, and consistency

Integrated Manual + Automated

- Consistent level of detail
- Sensor input with operator confirmation / additions
- Operator + automated entry directly into database with context
- Critical automated signals capture to keep programming cost low
- Visible real time with engagement
- Accurate and consistent for event time, metrics, and detail; operator + automated signals add context for C&E



Strictly Automated



- No operator input
- Sensor based
- Machine signals direct to database, may not have context
- Can be programming intensive
 and costly
- Visible real time
- Accurate for event time and certain metrics but difficult to discern cause and effect (C&E)





What are the "easy plays"?

- Minor stops
- Planned downtime (lunches, breaks, meetings, etc.)
- Changeovers
- Real-time data combined with operator insight
- Set priorities
- Monitor results





Not just numbers ...

- Real-time information deviation/gap recognition and severity
- Depth and dimension where, what, and when that created the gap

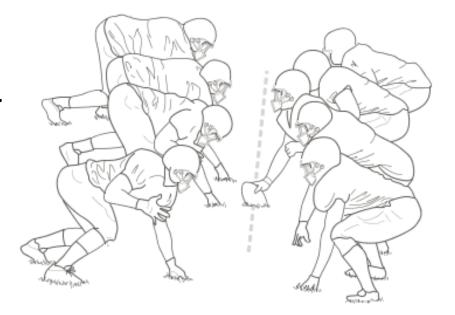


Business Inspired"



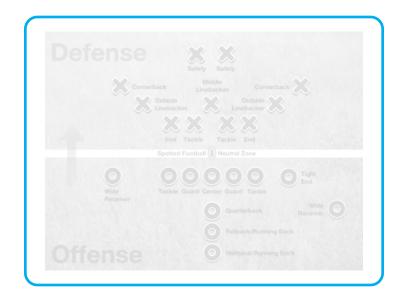
The Hike ... Which Direction Next?

- Compare shifts, work cells, product lines ...
- How do different tactics affect OEE?
- What can we do differently?
- Why are some shifts better than others?
- How do tactics line up with corporate strategies and requirements?
- What action is required to hit OEE goals AND product quality and delivery requirements?





Playbook Recap



- MANEUVER#1 Use OEE for the Right Reasons
- MANEUVER#2 Measure Consistently
- MANEUVER#3 Get to the Source of Efficiency Loss
- MANEUVER#4 OEE as ... the "Hike"





Questions?



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Thank you.

Are you ready to score with better OEE?

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