

Performance is more than a Number

Better efficiency measurements drive better results.



To win the market is to outperform the competition. But in order to actualize maximum performance, you need to utilize the best tools to measure and analyze performance.

Superior performance measurement techniques drive increased production, improved quality, and accelerated deliveries – but they should also minimize waste and operational costs. So to capture maximum efficiency, your measurements need to be both accurate and actionable.

A red flag only tells you that something needs attention, but it won't tell you where to focus or what to solve first. That's why the best measurement of performance should monitor efficiency in real-time while identifying and prioritizing issues – allowing you to track and analyze continuous improvement efforts.

Let's review how we gauge performance today, and the gaps it creates in operational efficiency.

OEE

MES

DPM

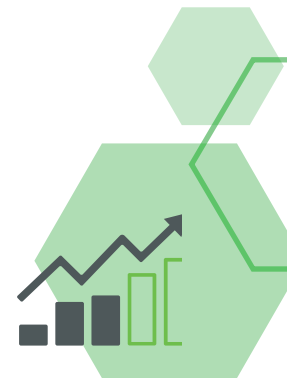
OEE is a KPI, a measurement of performance that was theorized 40 years ago and has been widely adopted by the manufacturing industry for decades. It's essentially a percentage indicating an asset's performance in production.

It's useful when looking for historical data so you can see how you performed over the last week or during particular shifts. Everyone utilizing the OEE metric – whether it's production, engineering, or operations management – could benefit from real-time data. More importantly, receiving immediate analysis that presents which displays both the actions and the order to carry them out delivers value faster. And beyond that, you have to analyze the data and deltas yourself to determine what actions to take to improve performance.

It can be difficult to assess what to do next using OEE.

While an OEE reading of 80% may look great, how does it compare to a 60% measure on another unit? If neither operation is a bottleneck, improving either unit may not improve plant throughput at all. Additionally, how do you place a value on OEE improvement? It's difficult to tie that improvement back to the plant profit and loss.

OEE is a significant KPI, but is it really the best way to measure and improve performance?



OEE • MES • DPM

Manufacturing execution systems (MES) track and record the manufacturing process in an effort to execute schedule-driven work efficiently. MES arrived around the 1990s and is capable of operating across multiple areas, such as order execution, resource scheduling, and production analysis.

And MES often provides an “as-built” record, which is especially important for highly-regulated industries, where documentation and proof of processes are often required. The traceability features for inventory and raw materials can be a lifesaver for compliance.

But as a real-time monitoring system, MES offers decisionmakers visibility into current conditions on the plant floor. Although it provides greater insight than OEE, it's limited: its analysis is tethered to what that MES system knows, and how quickly it can



analyze it. When looking to optimize performance and capacity, MES is merely another data point to process and analyze.

MES can play an important role on a factory floor, but is its data sufficient to deliver transformational results?



OEE MES DPM

Digital Performance Management is the closed-loop manufacturing operations solution that delivers performance insights by connecting to manual and automated data, and systematically identifying and prioritizing bottlenecks for improvement.

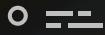
Through smart-connected operations, DPM goes beyond recording machine-specific OEE data and gives you a comprehensive look at your production floor. In addition to historical data, **DPM offers real-time monitoring** to empower operators with tangible insights into improving performance targets. It also **collects and normalizes production data** to a standard metric of hours, putting all plant-wide datapoints into simplified apples-to-apples comparisons.

Through DPM, **users can drill down to examine the cause of time-losses and prioritize continuous improvement efforts** (which they can all track through

DPM's Action Tracker). And by visualizing all this information through a common and accessible metric, the business can **verify that improvements tie back to the plant P&L and hit their value targets.**

With DPM, your enterprise has a sole source of truth for production performance monitoring at all levels of your operations hierarchy.





Going beyond standard performance

measurement: Optimize your operations with a comprehensive performance assessment through DPM. Then while your competition is deliberating over the OEE, you can drill down to the root cause at a glance.



COMPILING DATA



Get a full picture of your operational performance with DPM 