

PARSABLE OEE 2.0 CONNECTED WORKER ACCELERATORS

Streamline execution and create value by perfecting the human drivers of OEE

The Challenge

Overall Equipment Effectiveness (OEE) has always been a simple calculation – take your total theoretical output, subtract downtime and scrap, and you get a number deducted from 100 percent that tells you how well your machines are performing. World-class manufacturers have an OEE of 80 to 85 percent. The average is 60 to 65 percent.

So why isn't OEE the true benchmark by which we measure all manufacturing operations? The traditional challenge of not being able to accurately get the metrics from machines no longer applies today. Inexpensive sensor technology and newer equipment models with built-in sensors can make this calculation quite easy.

The issue is figuring out how to improve your OEE when, generally, your machines are actually performing quite effectively. According to VLSI Research Inc. as part of a study conducted by the Academies of Sciences, Engineering, and Medicine, the meantime between machine failures since 1960 has increased by 20x, meaning that machines are 20x more reliable. Additionally, only 3.4 percent of all industrial motors, new and old, fail in a given year. Of that, over half of the failures happen in just 17 percent of plants, according to an analysis by *Efficient Plant* magazine of research from the Electric Power Research Institute (EPRI).

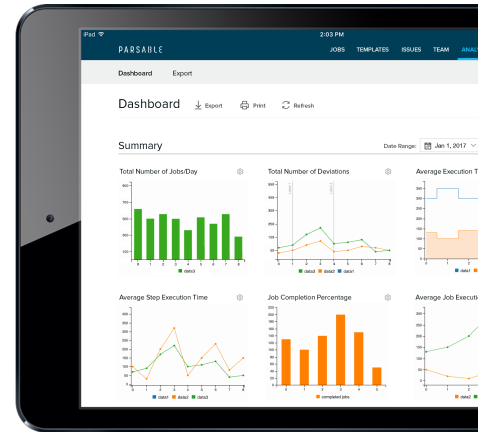
The Opportunity

The real opportunity today is to focus on what you can change: Uncovering human data to improve OEE. Historically, this “dark data” about what human workers are up to between one job to the next has been inefficiently collected, stored, and improved upon.

System improvement and business impact, though – as the great business management expert W. Edwards Deming taught us – requires us to leverage this data to perfect the system. In a CPG world where SKUs and the impact on human variability are exploding, the problem is now exponential, with many more reasons for why the system breaks. Given that 72 percent of manufacturing tasks are still being performed by humans, we must make sure that they, too, are optimized to do their best work.

Our Solution

Parsable's Connected Worker Accelerators treat OEE as a system. It combines work execution processes from the top human contributors to OEE – changeovers, maintenance, and safety – into structured procedures, pre-built data pipelines, and pre-configured dashboards that allow you to quickly and easily hone in on the problems that affect your production lines and eliminate them. Each changeover, maintenance, and safety process set is visualized in its own individual dashboard, giving you the visibility needed to quickly get to higher OEE performance – and maintain it.



Parsable's mobile platform organizes work and fosters collaboration in industrial environments:

Key Benefits

- Reduce cost and complexity of SKU expansion
- Accelerate changeovers
- Solve problems collaboratively on the spot
- Minimize rework and downtime
- Boost OEE and ROA



Changeovers

You probably know how long each changeover takes, but you might not have a handle on individual actions, as [SMED](#) specified we should. With the Changeover Accelerator, you now get complete measurement of changeovers. You can look at the total time spent on each changeover and break down each contributing action to isolate exactly the point(s) of inefficiency. For example, it could be when the step is executed (as in before or after the machine is shut off), it could be the setup for the step itself, or it could be the way the work is balanced among multiple workers.



Maintenance

Planned and unplanned maintenance directly contribute to the availability of your plant. The key is to execute consistently with structured and well understood work instructions, and analyze the time spent inside a planned or unplanned maintenance event and determine what actions can be taken to speed up the work involved. Often, a perspective on multiple lines is required to surface a best practice, codify it, and then rapidly and globally distribute a “golden process” to quickly improve maintenance actions. With machine setups constantly changing, especially in the CPG world, the Maintenance Accelerator will help your teams execute consistently and constantly surface the latest opportunities for maintenance improvement.



Safety

Above all else, your plants must be safe. The more your plant is being reconfigured to produce new products that today’s consumers demand, the more opportunities for injuries. Precautions like safety rounds, *Gemba Walks*, and JSAs are now mission-critical. With the Safety Accelerator, you can now execute these processes digitally to make sure they are well understood, tracked, and measured. What’s more, when you unify a view of multiple lines from multiple operating units, their combined safety audits, safety rounds, and safety incidents, patterns can then quickly emerge at the “system” level. Root causes can be identified, and quick decisions can be made to make multiple lines and multiple plants safer in one fell swoop.

Business Impact

By leveraging Parsable’s Connected Worker Platform with Parsable’s Connected Worker Accelerators, companies are taking advantage of the best available IP out-of-the-box to manage core functions, minimizing impact on total performance, and maximizing business returns. Additionally, Parsable’s Accelerators provide promote collaboration between workers and management, isolating and eliminating root causes that impact cost and profit.

More Information

Parsable’s Connected Worker Platform and its Connected Worker Applications are helping companies move to a new level of competitiveness and realize Industry 4.0. Our proven methodology has enabled fast success in just weeks at some of the world’s largest CPG companies.

For more information on how you can drive OEE as a system, contact us at 1-888-681-2119 or www.parsable.com/contact.

About Parsable

Parsable helps the world’s largest industrial firms get jobs done right – every time. Parsable provides a Connected Worker Platform so employees can collaboratively execute their work using paperless, modern, and digital work instructions on modern mobile devices. In addition to measuring every step and action, employees can raise issues and provide feedback so that every process is quickly analyzed and improved. With Parsable, teams of Connected Workers know what they need to do and how to do it.

Parsable’s customers include Corteva, Green Chef, Procter & Gamble, Schlumberger, Scientific Drilling, Shell, Silgan, Zume, and other category leaders in energy, industrial manufacturing, and consumer packaged goods. Founded by veterans of Accenture, Google, Microsoft, SAP, Oracle, and YouTube, Parsable is headquartered in San Francisco with offices in Austin, New York, Vancouver, Canada, and Dublin, Ireland.

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