



Enterprise OEE

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Introduction

The Adroit Enterprise OEE is a highly effective performance management tool, which evaluates how effectively a manufacturing operation is performing. Adroit Enterprise OEE can be used on single or multiple production lines and from one to several plants. It is suitable for all types of manufacturing processes including discrete, continuous, or batch.

It's possible to achieve significant performance gains in your manufacturing facility by using OEE as a management tool.

Key Features and Benefits

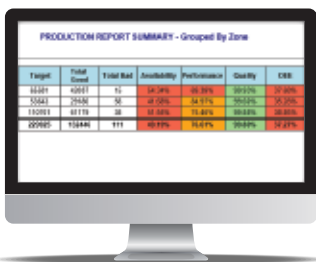


- With the Adroit Enterprise OEE solution, manufacturers can identify problems, constraints, and bottlenecks within production systems. This leads to greater efficiency and profitability.
- Companies can now prove the return on investment through measurable data provided by the Adroit Enterprise OEE solution.
- The Adroit Enterprise OEE enables manufacturers to visualise shop-floor performance in real-time.
- With Adroit Enterprise OEE, companies can anticipate events that represent efficiency and savings - allowing focus on preventative maintenance, machine failure root cause analyses, etc.
- Live data provided by the Adroit Enterprise OEE solutions can provide insights and knowledge to reduce unplanned downtime and increase throughput speed and quality whilst identifying unplanned stoppages that ultimately lead to greater profitability.
- Adroit Enterprise OEE has built-in management and real-time performance reporting. Early detection of problems means less downtime and production losses.

OEE Reports

Adroit Enterprise OEE is supplied with comprehensive Web-based OEE Management Reports.

- e.g. Downtime Survey Reports
- Production Reports
- Log in / Log out Report
- Production Dashboards
- Production Summary
- Production per hour
- Total Machine / Zone / Plant / Production Count



Preferred Calculation

Availability

Availability is the ratio of operating time to planned production time. Availability of 100% means the process has been running with no unplanned stops.

A

X

Performance

Performance is the ratio of theoretical/ideal speed to actual speed. Performance of 100% means the process has been consistently running at its theoretical maximum speed.

P

X

Quality

Quality is the ratio of good parts to total parts. Quality of 100% means there have been no rejects or rework parts.

Q

=

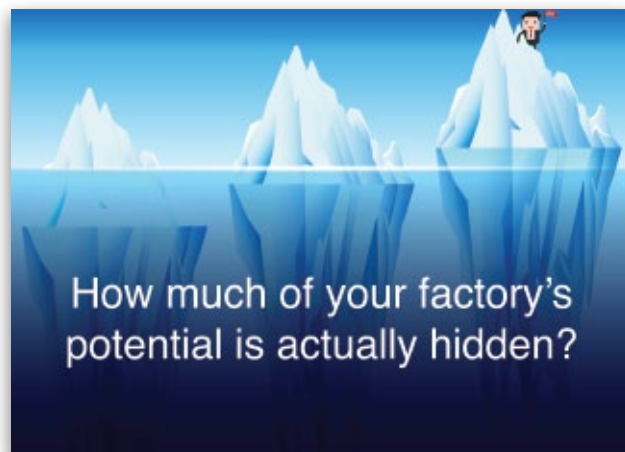
OEE

OEE takes into account all losses. An OEE score of 100% means you are manufacturing only good parts, as fast as possible, with no unplanned stop time.

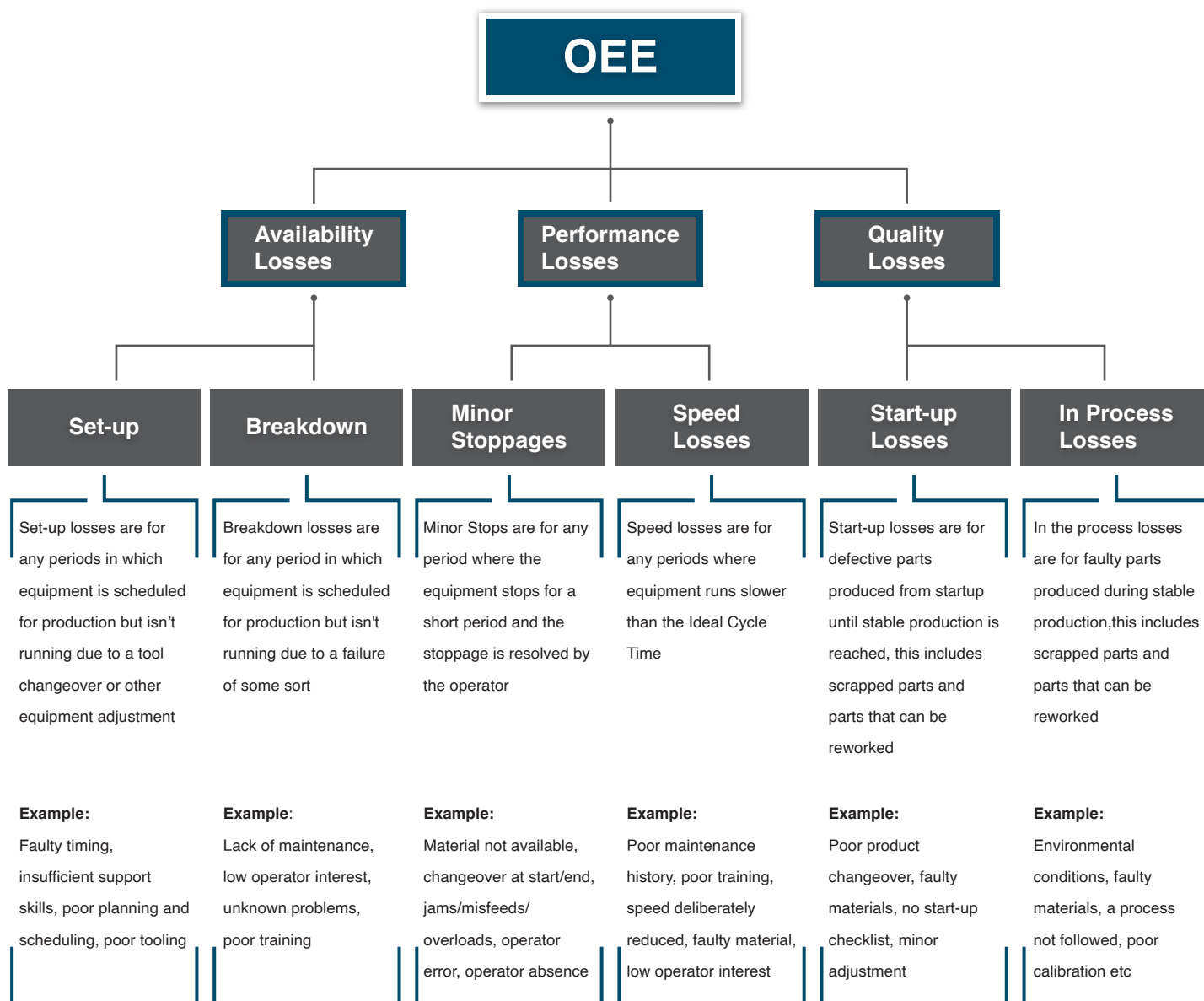
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Why the Preferred OEE Calculation?

OEE delivers insight – a precise picture of how efficient your manufacturing process is running. The role of Availability, Performance, and Quality is to deliver precise information to find the cause of lost productivity. Understanding how your whole factory is performing at any given time is essential in keeping the focus on the most critical tasks at hand and not wasting time. “You can't manage what you can't measure.”



Common Causes of Losses



Quick Overview through Visual Aids

The Stack Lights

A quick plant overview for the supervisory staff is possible through the installed stack lights which indicate the different statuses of the OEE or stages of production while continuing with his normal duties.

The Orange light

The operator has an outstanding reason that needs to be booked, the fault that needs to be booked was caused by a machine stoppage that lasted for a longer time than that of a short-stop period.

The Blue light has got two indications

The first indication is a solid blue light, which means that the OEE is on maintenance mode.

The second indication is a flickering blue, it means that the system is in a tool setup mode.



The Red light has got two indications

The first indication is a solid red light, it means that the machine is ready to run.

The second indication is a flickering red light. it means that the machine is experiencing some sort of a fault.

The Green light has got two indications

The first indication is a solid green light, it means that the machine is running normally.

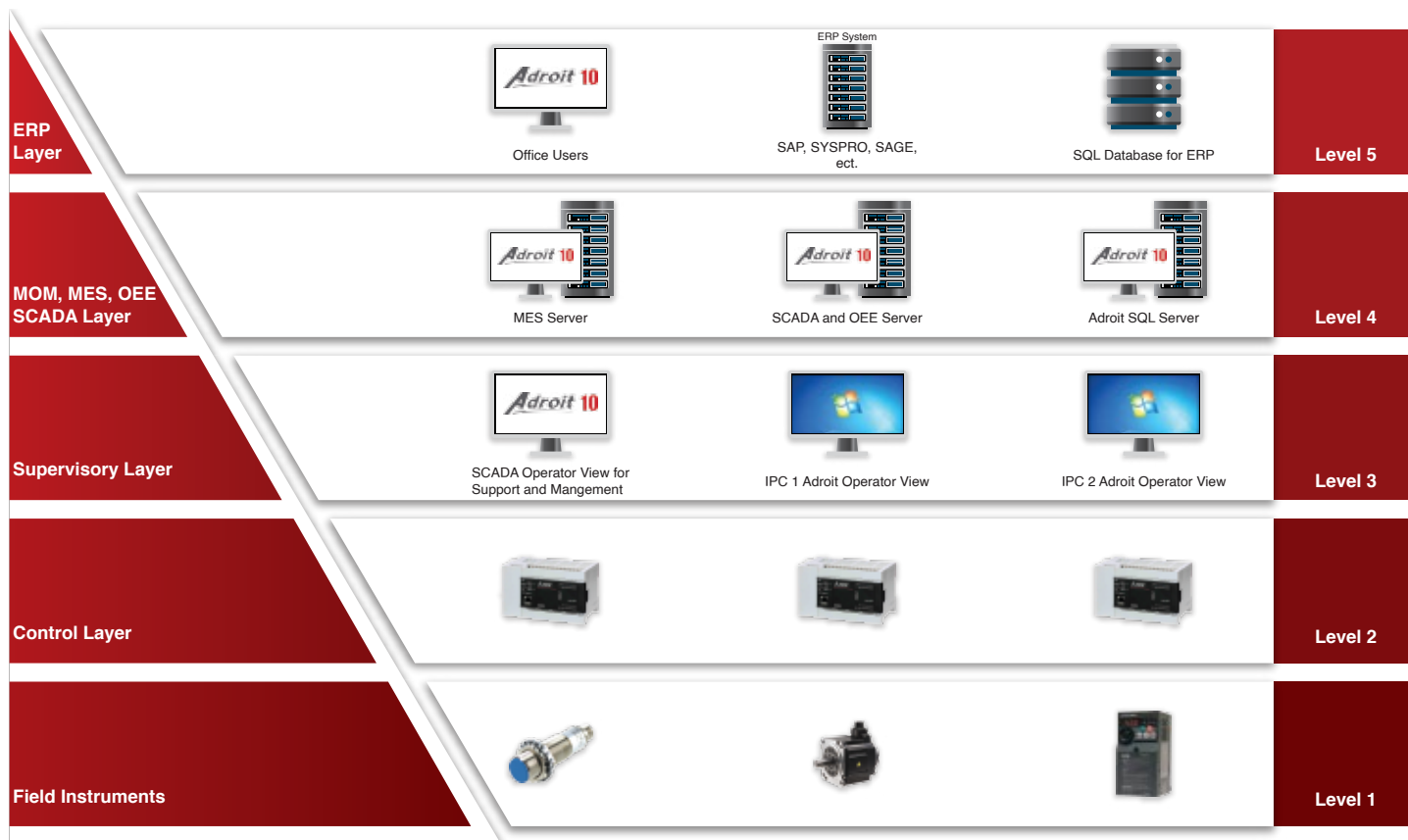
The second indication is a flickering green, it means that the machine is slow running in other words producing less than the target.

The OEE Operator View Functions

- Load and Start Orders
- Book Delays
- Start / Stop Equipment
- Maintenance View
- Maintenance Callouts
- Production Info
- Production Totals
- Scrap Handling
- Log Off Operator
- OEE Info
- PLC Info
- Status Bars
- OEE Dials
- Delay Details
- Next 5 Orders in Que
- Production Status Info
- Stack Light Info



OEE Architecture



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