

### Key Objectives & Business Value

#### KEY OBJECTIVES

An initiative aimed at building an 'Information Culture' in the Organization and transform to IoT enabled Organization. Business integration and linkage of contents and information to provide 360 degree view. Better integration of information over end-to-end processes leading to single point of truth, which would give deep insights into our business operations & performance; Provide a platform for performance comparison with external world; Empowering the business with Information.

- **Production Performance** through machine learning based data integration and advanced analytics.
- **Overall Equipment Effectiveness** Management allows to measure and analyze plant performance.

### Potential Business Value

#### Production Performance

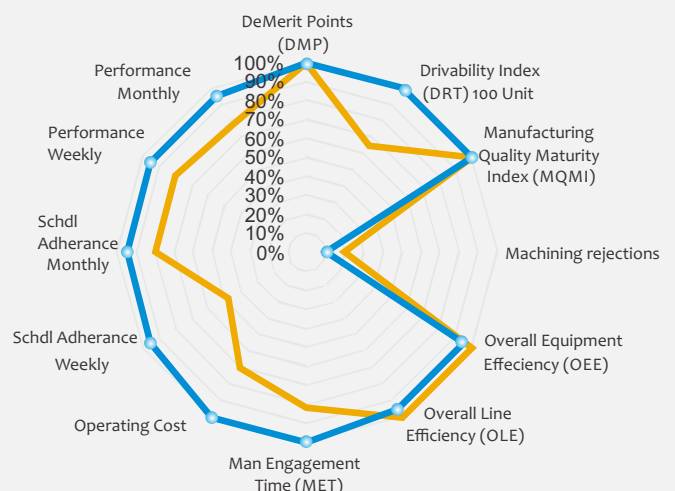
- ✓ Production managers to quickly gain an overview of production for which they are responsible
- ✓ DeMerit Points (DMP),
- ✓ Drivability Index (DRT) 100,
- ✓ Manufacturing Quality Maturity Index (MQMI),
- ✓ Machining Rejections,
- ✓ Overall Equipment Efficiency (OEE),
- ✓ Overall Line Efficiency (OLE),
- ✓ Man Engagement Time (MET),
- ✓ Operating Cost,
- ✓ Schedule Adherence Weekly,
- ✓ Schedule Adherence Monthly,
- ✓ Performance Weekly,
- ✓ Performance Monthly

#### Overall Equipment Effectiveness

- ✓ OEE is KPI that provides an insight into the efficiency of your manufacturing processes
- ✓ Total Production Time
- ✓ Net Production Time
- ✓ Loading Time
- ✓ Quality Loss
- ✓ Speed Los
- ✓ Net Operating Time
- ✓ Value Operating Time
- ✓ Changeover
- ✓ Scheduled Down
- ✓ Unscheduled Down

Parameter	Achvt %	Target %
DeMerit Points (DMP)	95%	100%
Drivability Index (DRT) 100 Unit	65%	100%
Manufacturing Quality Maturity Index	92%	100%
Machining rejections	9%	10%
Overall Equipment Efficiency	94%	95%
Overall Line Efficiency (OLE)	94%	95%
Man Engagement Time (MET)	82%	100%
Operating Cost	70%	100%
Schdl Adherence Weekly	48%	95%
Schdl Adherence Monthly	80%	95%
Performance Weekly	80%	95%
Performance Monthly	78%	95%

#### Production Performance — Achievement % — Target %



# STORYLINE

## Production Performance

### Advanced Analytics & Insights

- Production Performance Dashboard describes the most important key performance indicators (KPIs) used in today manufacturing departments
- Benefit from a comprehensive overview of manufacturing departments performance and accurate real-time visibility will increase production output and save customers manufacturing investments.

### Overall Equipment Effectiveness

- Total Production Time:** It is the total time available considering 24 hours in a day and all seven days as working.
- Net Production Time:** It is the duration obtained after deducting the unscheduled downtimes from the loading time.
- Flow Time:** Flow time is the time taken between the start of an order and the first finished product. Impact on KPIs is similar to that of Scheduled Down.
- Changeover:** Changeover is the duration used to perform activities required for a changeover event when different products are produced on the line. Impact on KPIs is similar to that of Scheduled Down.
- Scheduled Down:** Holiday, Planned Down time...
- Loading Time:** This is the time between the start and end of an order.
- Unscheduled Down:** The unplanned downtimes effective in the downtime calculations are based on the line behavior and bottleneck behavior defined in your system.
- Speed Loss:** It is the duration obtained after deducting the time that would have been required to produce the same quantity at nominal speed from the actual time taken to produce the reported production quantity.
- Net Operating Time:** It is duration obtained after deducting speed loss from the net production time.

