MachineScope
Operations insights to enable continuous production with social distancing

Intelligence for efficient manufacturing operations

Note: Slides may contain current as well as future roadmap features

Solution : MachineScope
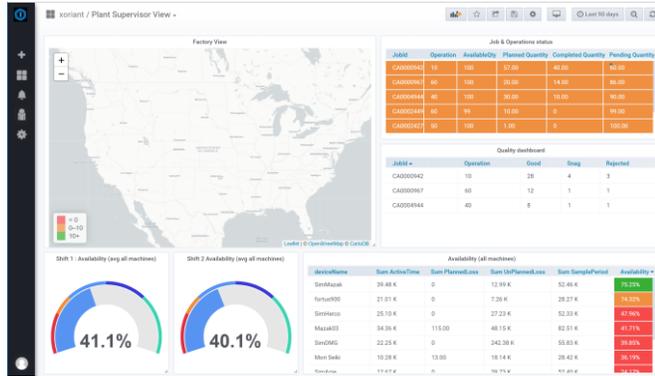
MachineScope Fusion & Genius

24/7 Real-Time Dashboard for production data and status

Advanced data analysis for segmenting data, trending, anomaly detection and alerting

PLC (Modbus)

Multi-vendor machines

MachineScope Mate

Supervisory AI training interface

Operator interface to track machine state and quality from the production floor

Human Operations

MachineScope PowerPlay

Non-intrusive digitization of any machine using sensor data and pattern matching

Supports current, temperature and vibration sensors
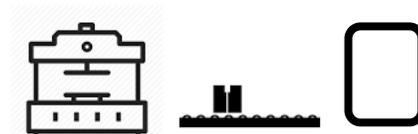
Legacy machines, HVAC, Freezers, etc

Insights into factory operations performance

- Innovative IIoT Industry 4.0 solution.
  - Single pane of glass with realtime view of production, machine status, operators activities etc
  - Provides Overall Operations Efficiency at factory or machine group or machine level.
- Support for Additive and Subtractive machines
  - Dashboards & shift-wise reports for downtime, uptime, availability, performance, etc for hourly, daily, weekly, monthly & yearly review.
- Automated alerts based on thresholds and anomalies.
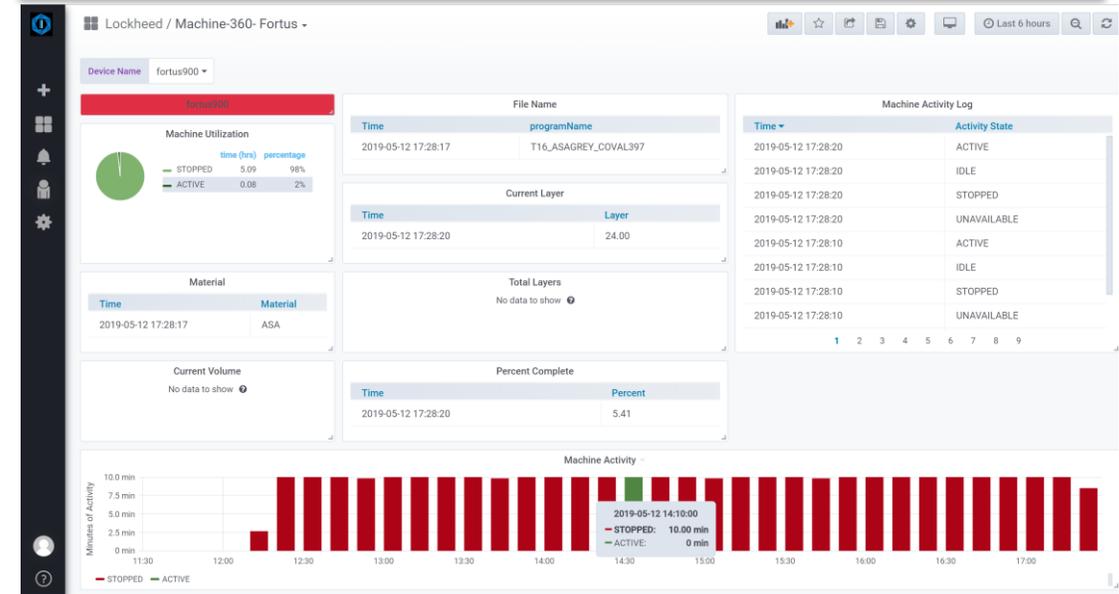
# Out-of-the-box operational insights to floor managers and executives

- Plant Executive view
  - Operations Efficiency at factory or machine cell group or machine level for performance insights.
  - Operations Loss analysis to enable cost optimization
- Plant Supervisor view
  - Realtime view into Job & operations, machine production, machine status, operators activities etc
  - Downtime, uptime, availability, performance, quality etc for hourly, daily, weekly, monthly & yearly review.
- Plant Maintenance manager view
  - Machine faults
  - Maintenance wait time analysis
  - Machine downtime reports
- User can create new dashboards and/or reorganize more than 30+ canned ones.

Mate for paperless operations tracking

- ✓ Automate the operations tracking.
- ✓ Remove manual steps and improve accuracy.
- ✓ Run Mate from browser on Phone, Tablet, Laptop or Desktop

PowerPlay for machine behavior analysis

- ✓ Plug and Play – Easy to deploy
- ✓ Digitize any machine
- ✓ Machine Behavior analysis using augmented sensors.
- ✓ Secured communication
- ✓ Supports Current, Vibration, Temperature sensors

PowerPlay IIoT Gateway (HW)

AC apparent power sensor
Wraps around one of the power supply phases to the machine.
Senses apparent power consumption patterns.

Vibration Sensor
Can be attached to the vibrating location such as spindle motor.
Senses g-force vibrations in X, Y and Z direction using acceleration method.

MachineScope Fusion

- Pattern matching & machine learning to identify anomalies
- Automated alerts @ anomaly detection

Patent pending (62735936)

Floor operations "at-a-glance" dashboards

- Impress your customers by displaying on large TVs

- Shift wise key production metrics

- Customizable contents
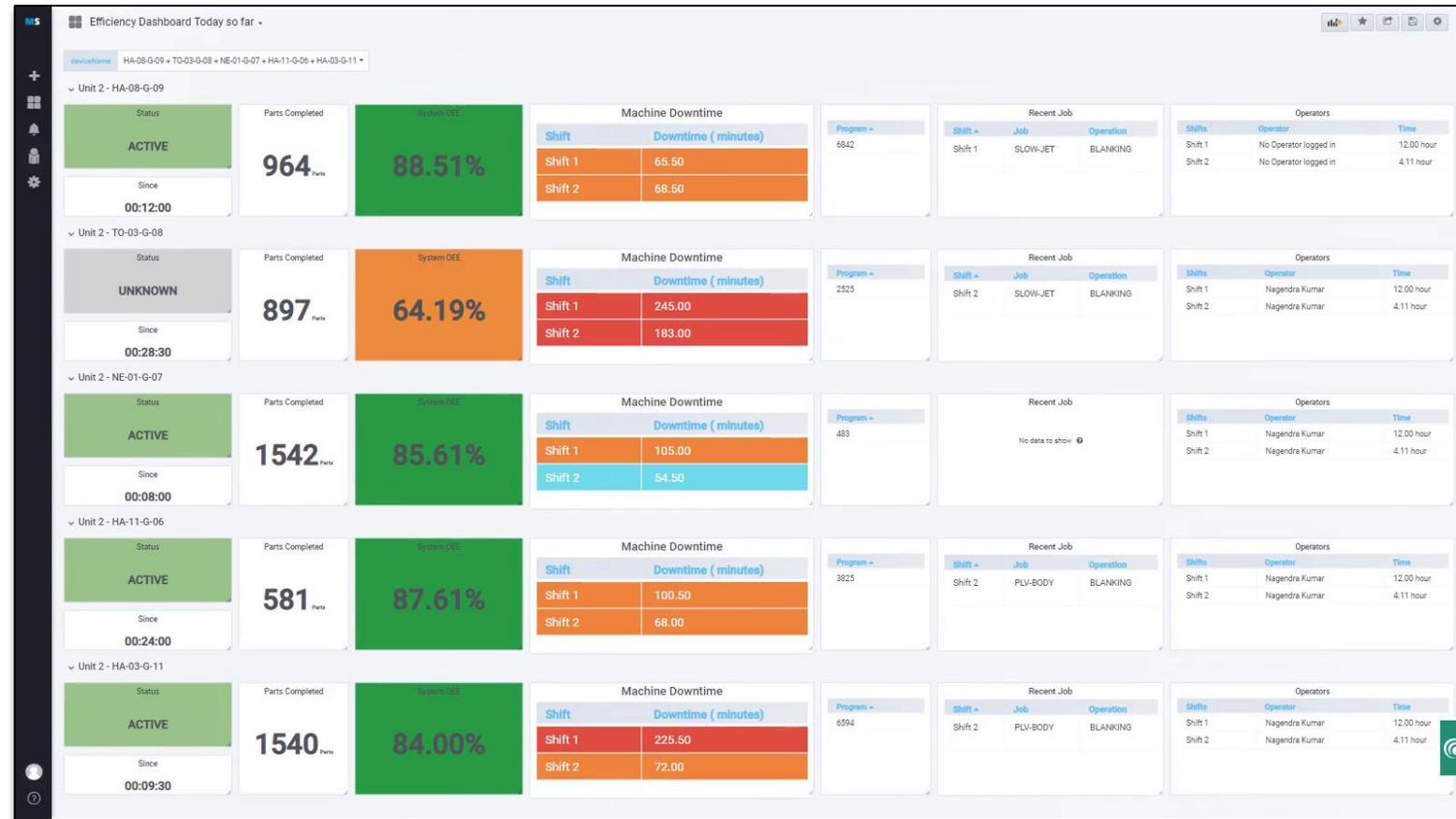
Machine-360 : Machine level details

- Machine KPIs

- Know the exact downtime and reasons

- Get KPI trends for OEE, Availability.
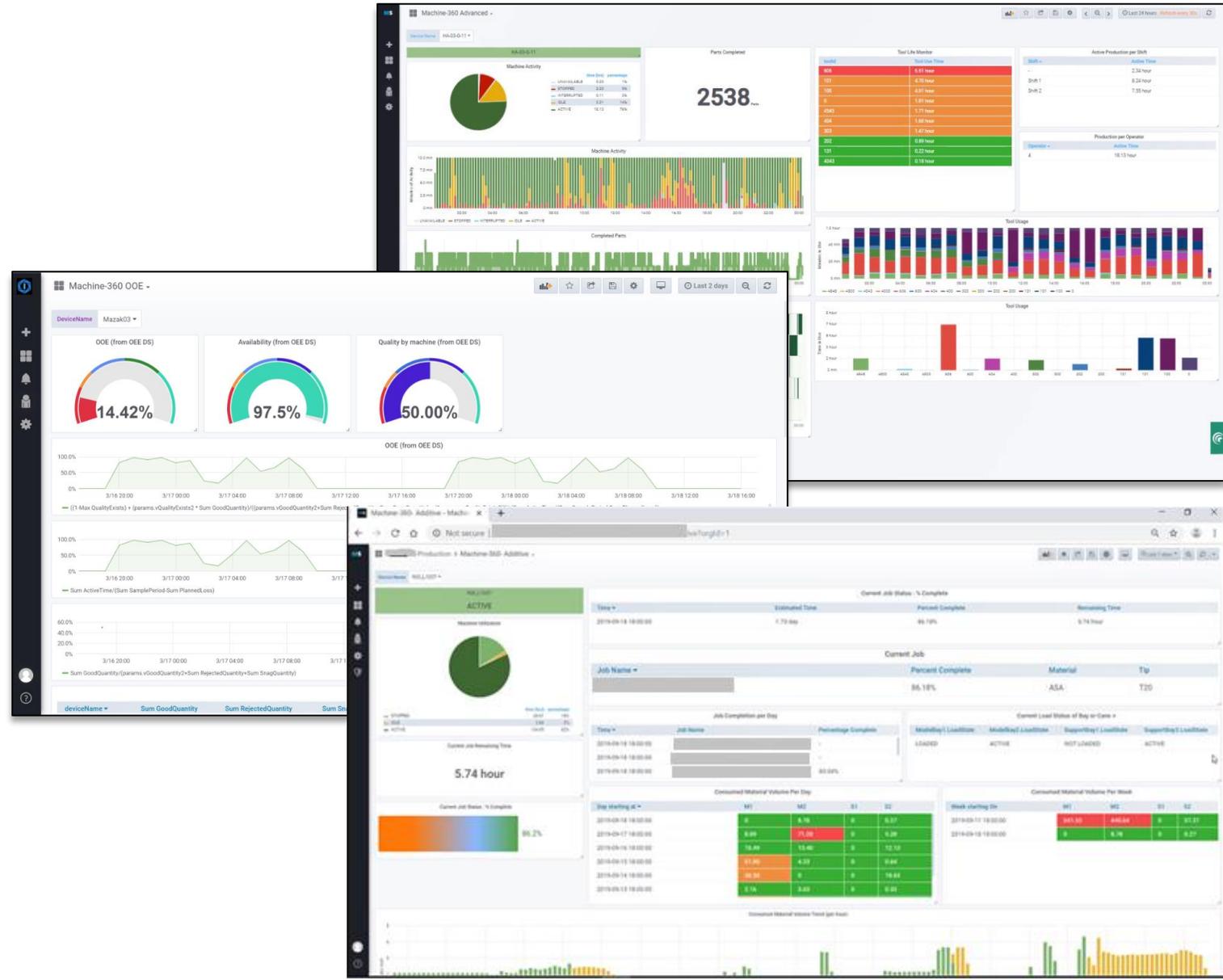
Loss analysis driven by Mate inputs

- Quickly know Production vs Maintenance vs Engineering loss

- Planned vs Unplanned losses

- Factory level, Shiftwise or Machine wise reports Daily, Weekly, or Monthly
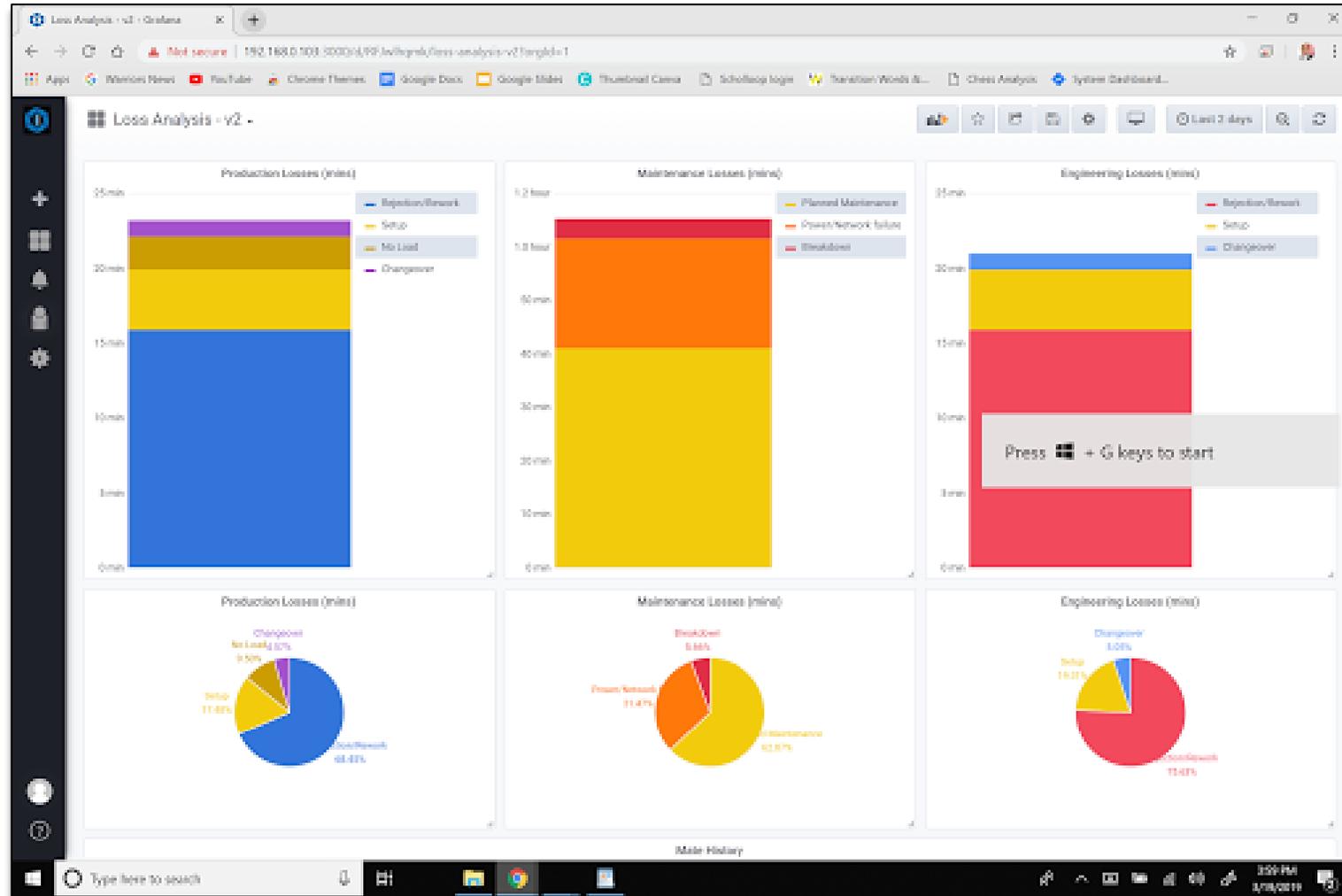
Automated Alerts

- Know issues immediately from anywhere

- Get key alerts in your email

- Automatic generation and clearing of alerts
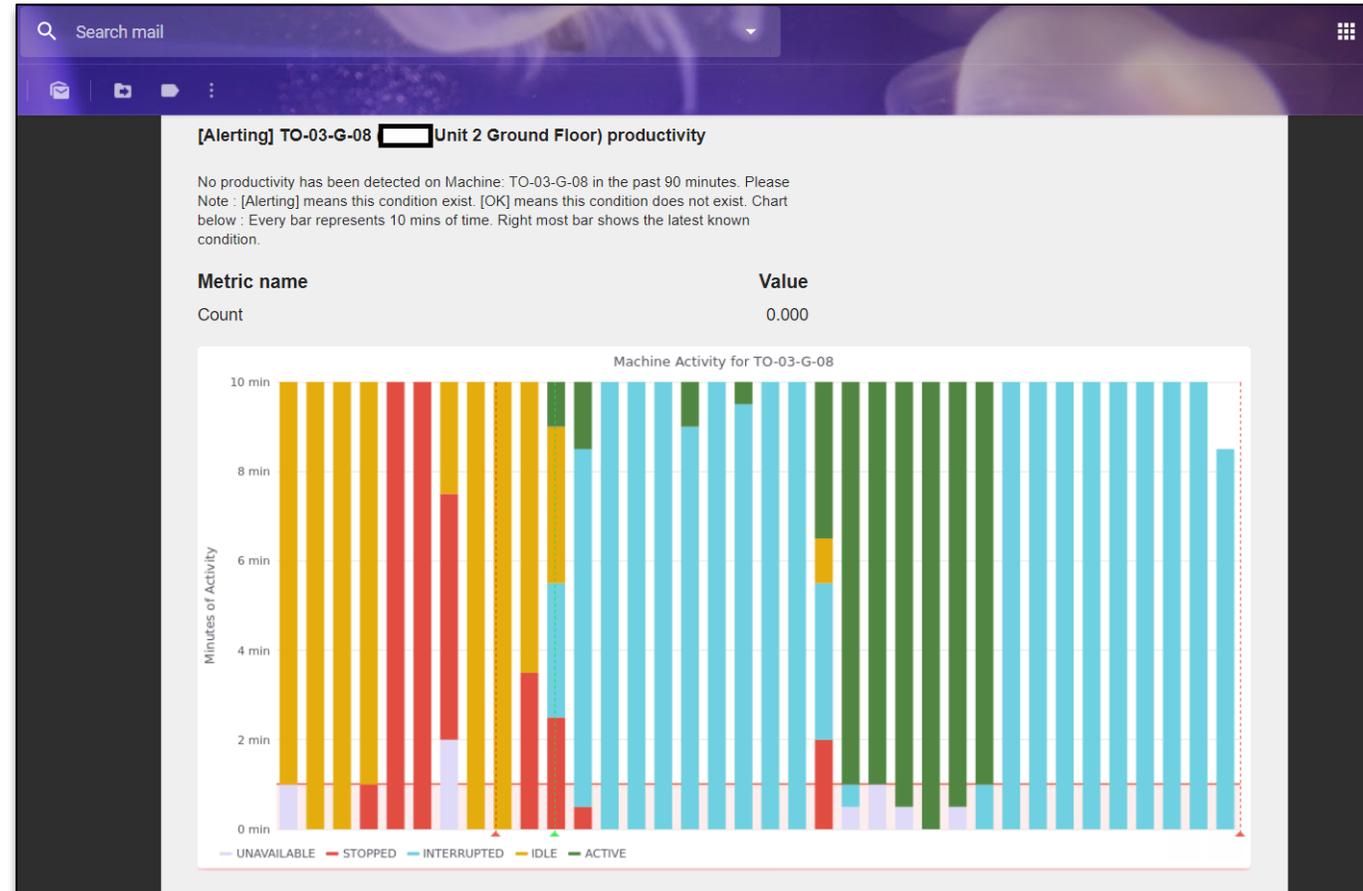
MachineScope: Purpose built Industrial IoT solution

INDUSINTEL

Multi-vendor machines

Legacy machines

Adapters library

PowerPlay sensors

Mate for Operations tracking

Real-time Digital Twins of Industrial Assets

Trends and Analytics

Fusion

Genius

On-Premise

Cloud or On-Premise

Factory IT : ERP, BPS
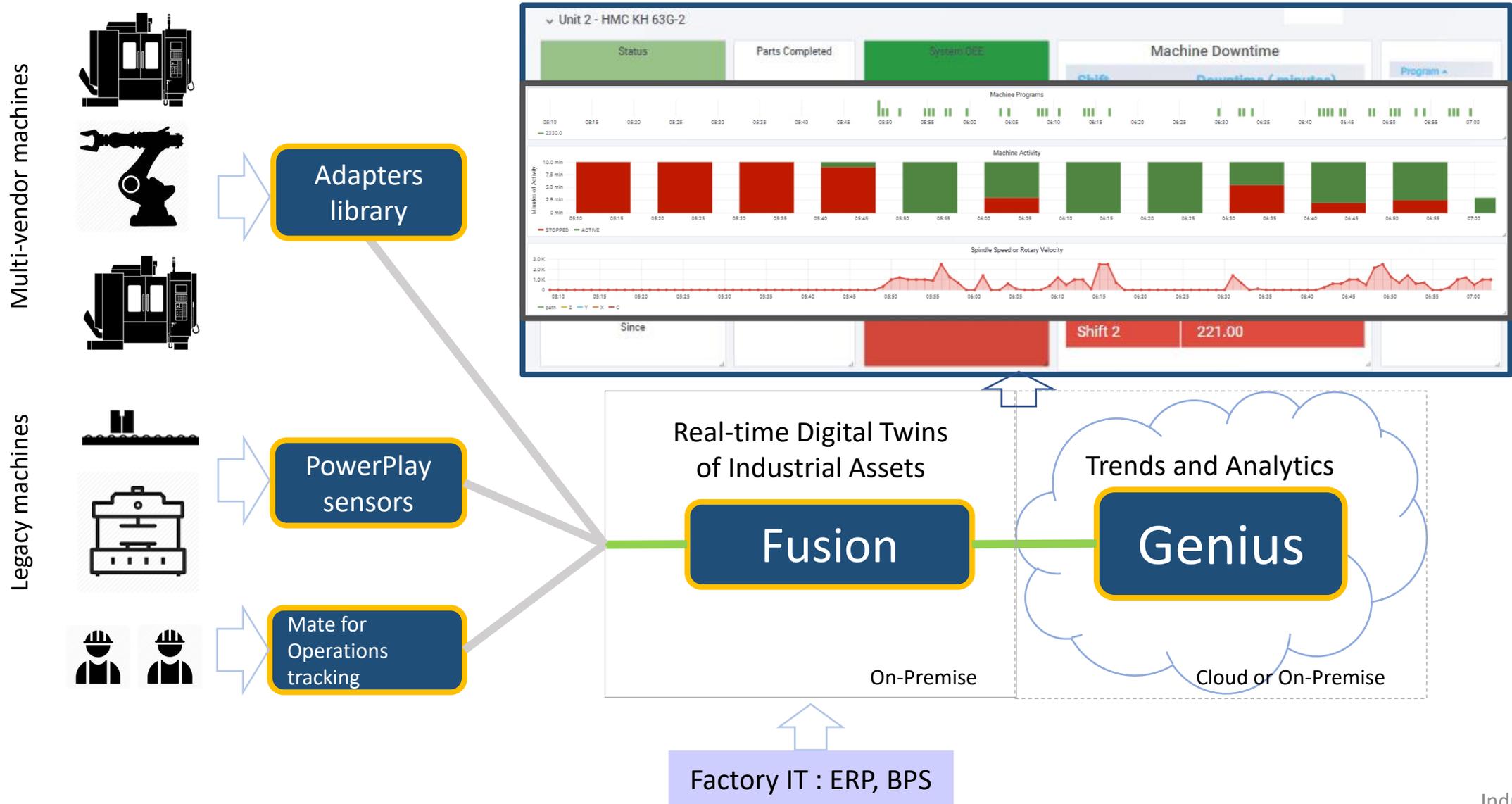
IndusIntel Inc.

Get Started Today!
www.IndusIntel.com
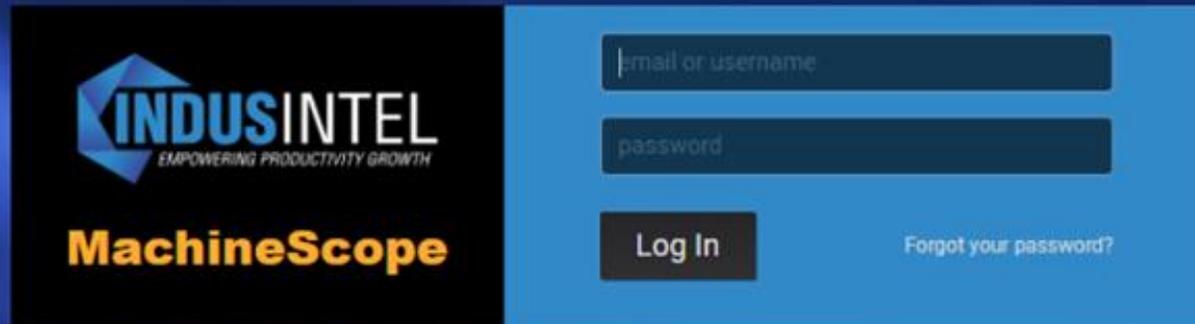
Contact: Info@IndusIntel.com

81% of industrial companies believe that adoption of the Industrial Internet of Things is the key to future success.

Source: Genpact Research Institute, 2016