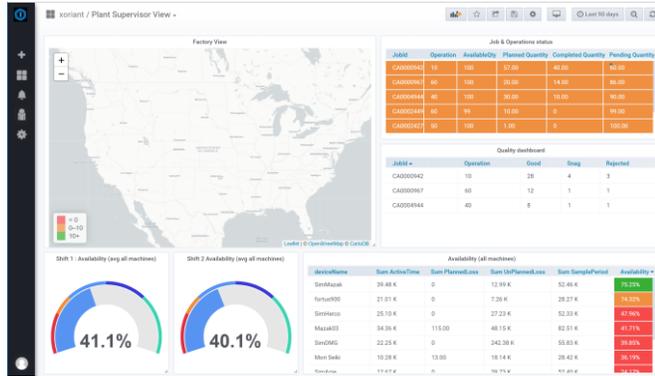


MachineScope

Operations insights to enable continuous production with social distancing

Intelligence for
efficient
manufacturing
operations

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



Multi-vendor machines



MachineScope Mate

Supervisory AI training interface

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



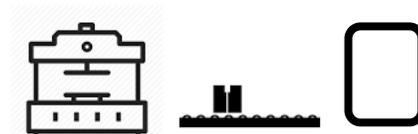
Human Operations



MachineScope PowerPlay

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

Supports current, temperature and vibration sensors

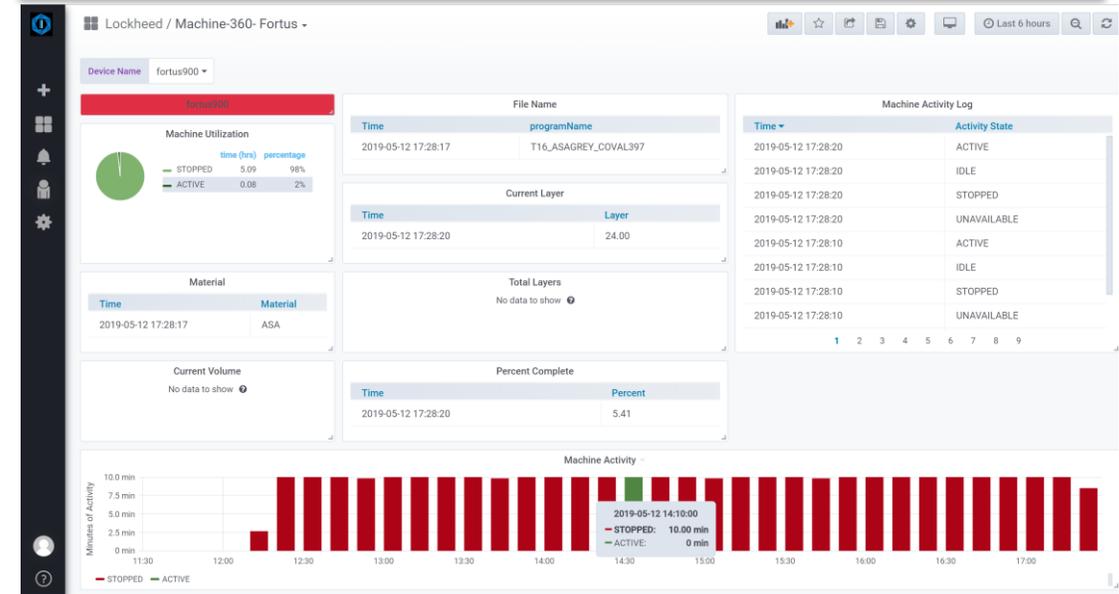


Legacy machines, HVAC, Freezers, etc

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

MachineScope Mate admin

SRB Star -20 IDLE

Sat Jun 22 2019 8:46:52 AM

JOB CA0000967

Operation 60

Machine Name SRB Star -20

Under Inspection 2

Shift Shift 1

Type SNAG

Quantity 1

Charge On Operation

Reason Poor Surface finish

Remark Rework

Save Done

Total	Produced	Inspection	Good	Snag	Rejected
100	30	2	14	7	7

MachineScope Mate admin

SRB Star -20 IDLE

Sat Jun 22 2019 9:56:44 AM

INDUSINTEL

Username

Password

Sign In

MachineScope Mate admin

SRB Star -20 IDLE

Sat Jun 22 2019 8:43:56 AM

Job/Production Order Number CA0000967

Operations 60

Job CA0000967

Operation 60

Item Item 2

Description

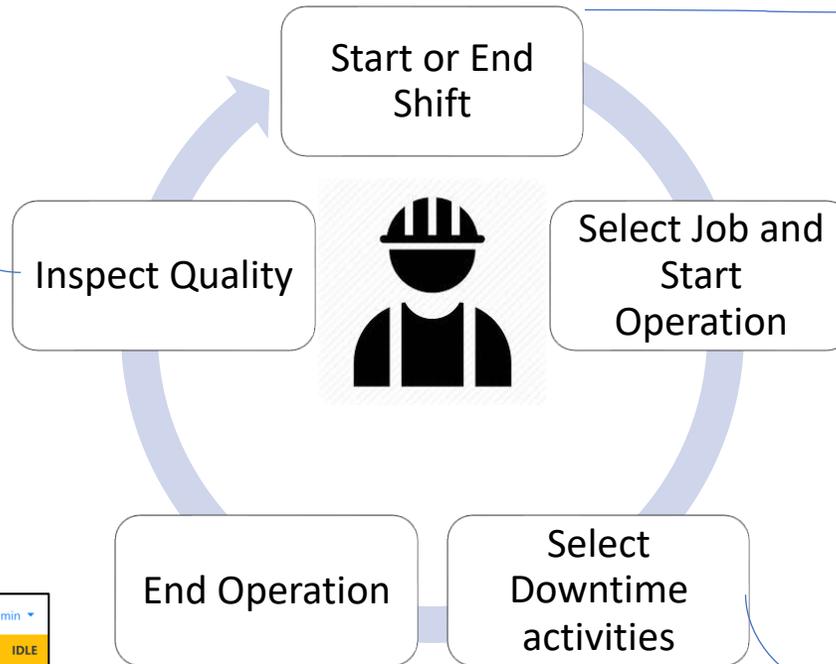
Total Quantity 100

Ready To Start Quantity 70

Started Quantity 0

Start Quantity 0

Start Operation Inspect Quality



MachineScope Mate admin

SRB Star -20 IDLE

Sat Jun 22 2019 8:40:33 AM

Job CA0000942

Operation 10

Item 12345677

Description

Started Quantity 4

End Quantity

End Operation Cancel

MachineScope Mate admin

Mazak-03 UNAVAILABLE

The May 14 2020 9:15:41 AM

Machine UNAVAILABLE since 01 hrs 57 mins and 22 seconds.

No Reason since 00 hrs 00 mins and 16 seconds.

Job WO-Additive-F900 Operation Whole part

Setup	Changeover	Rejection/Rework
Breakdown	Power/Network failure	No operator
Tip Change/Waiting for tools	Waiting for Fixtures/Accessories	Minor Stoppages
No Load	Planned Maintenance	Training
Organization Excellence	Break	Leave

Update Reason

End Operation Inspect Quality

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

AC apparent power sensor

Wraps around one of the power supply phases to the machine.

Senses apparent power consumption patterns.



PowerPlay IIoT Gateway (HW)



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.



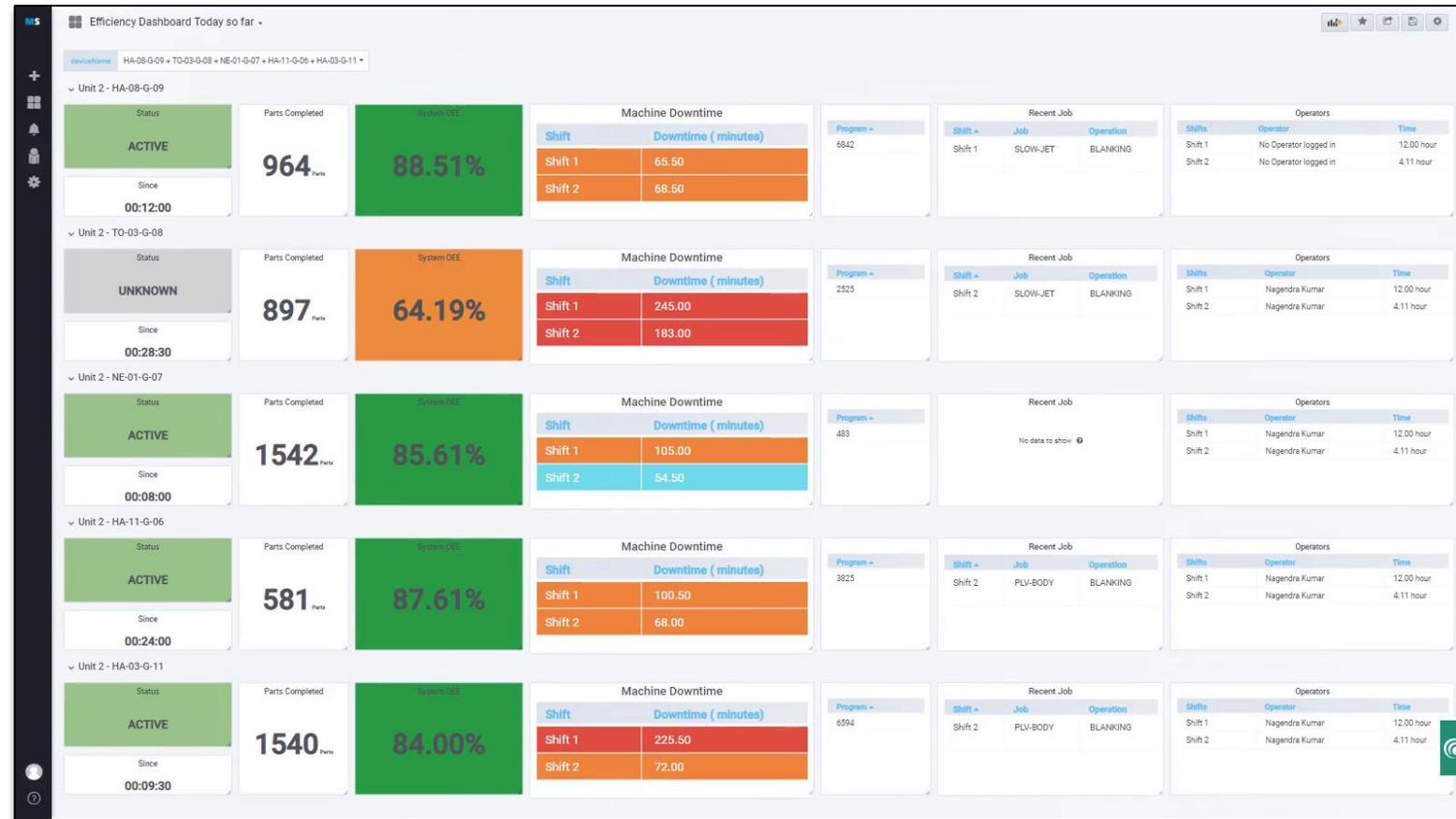
MachineScope Fusion

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

Patent pending (62735936)

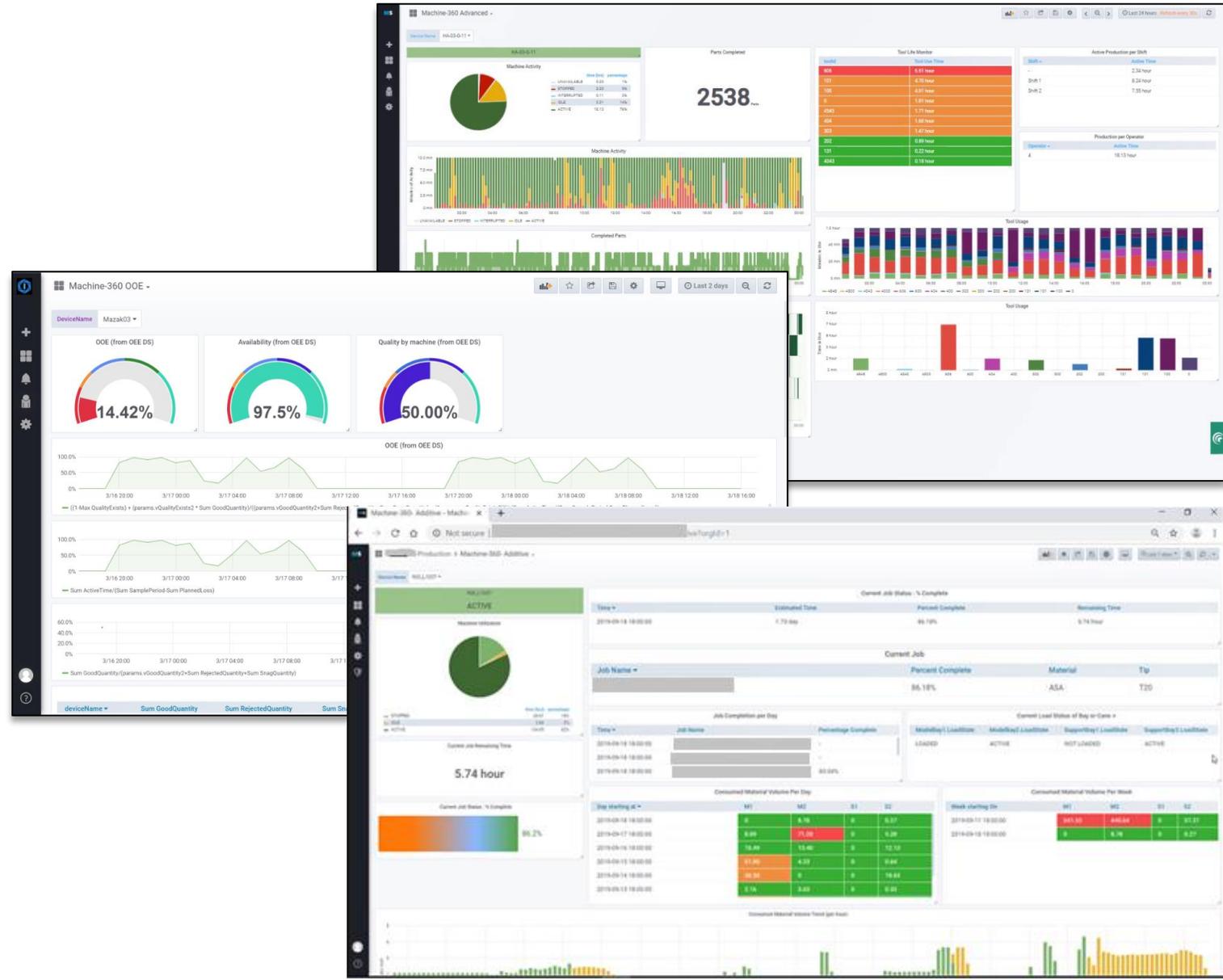
Floor operations “at-a-glance” dashboards

- Impress your customers by displaying on large TVs
- Shift wise key production metrics
- Customizable contents



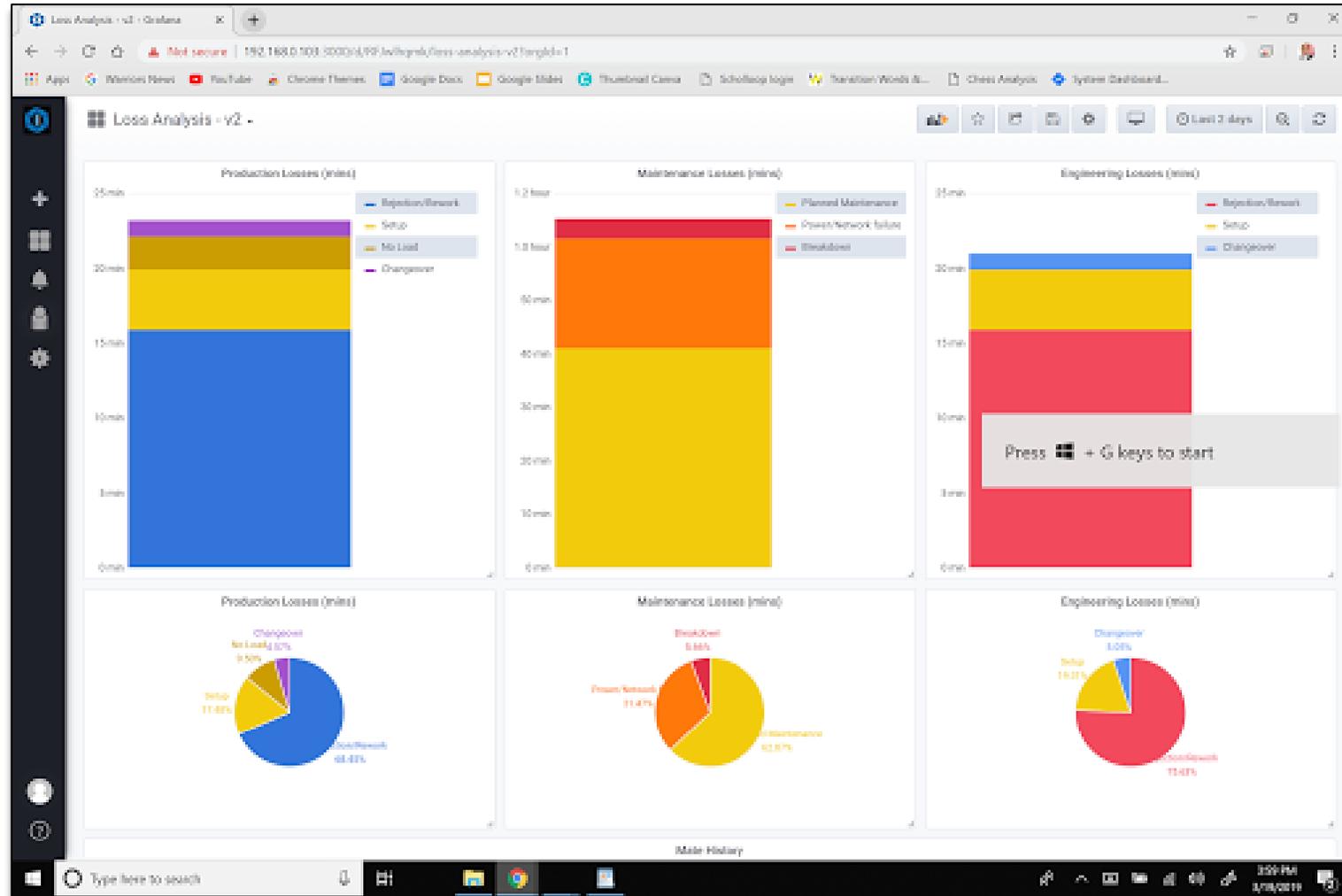
Machine-360 : Machine level details

- Machine KPIs
- Know the exact downtime and reasons and reasons
- Get KPI trends for OEE, Availability.



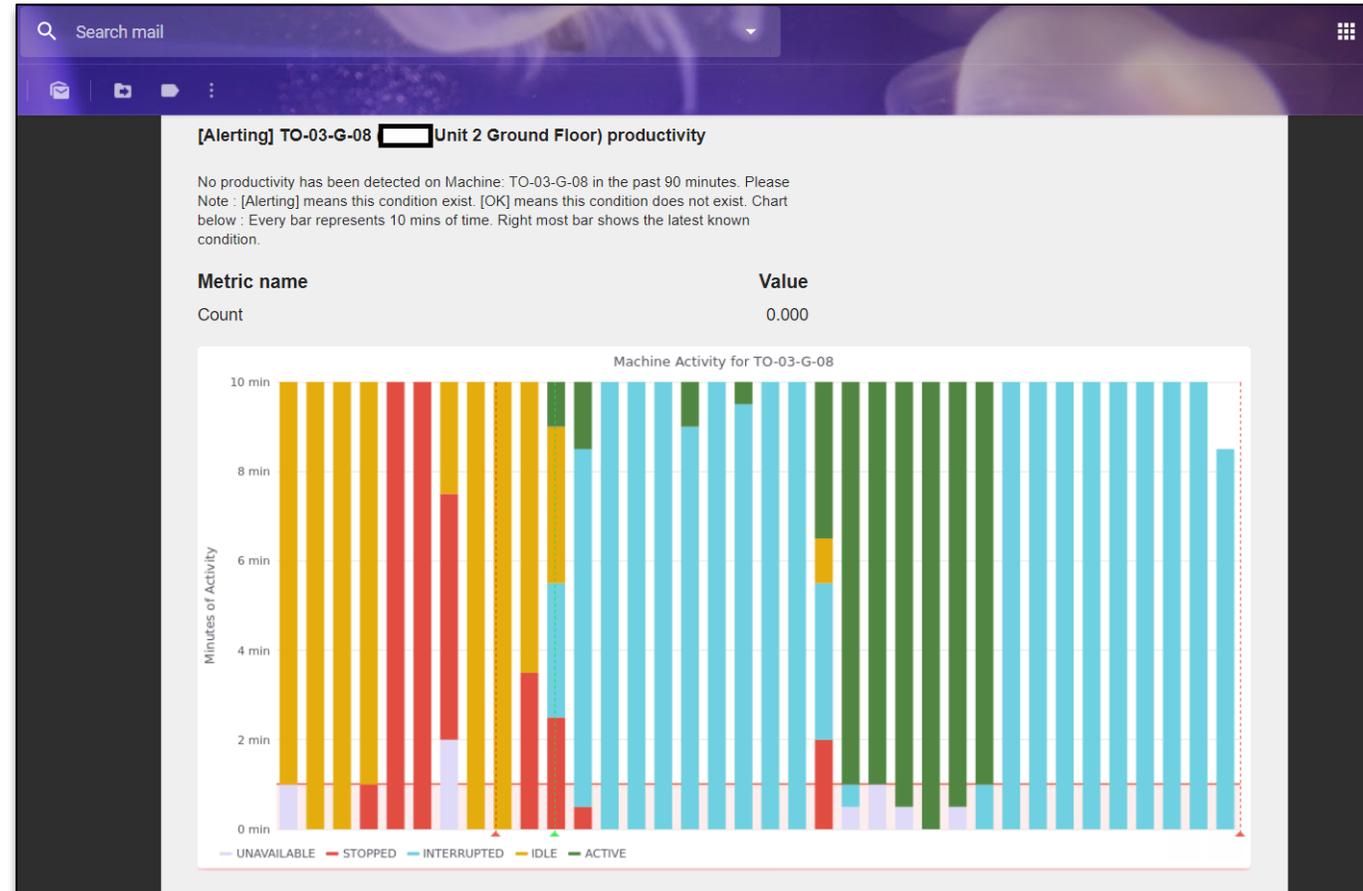
Loss analysis driven by Mate inputs

- Quickly know Production vs Maintenance vs Engineering loss
- Planned vs Unplanned losses
- Factory level, Shiftwise or Machine wise reports Daily, Weekly, or Monthly

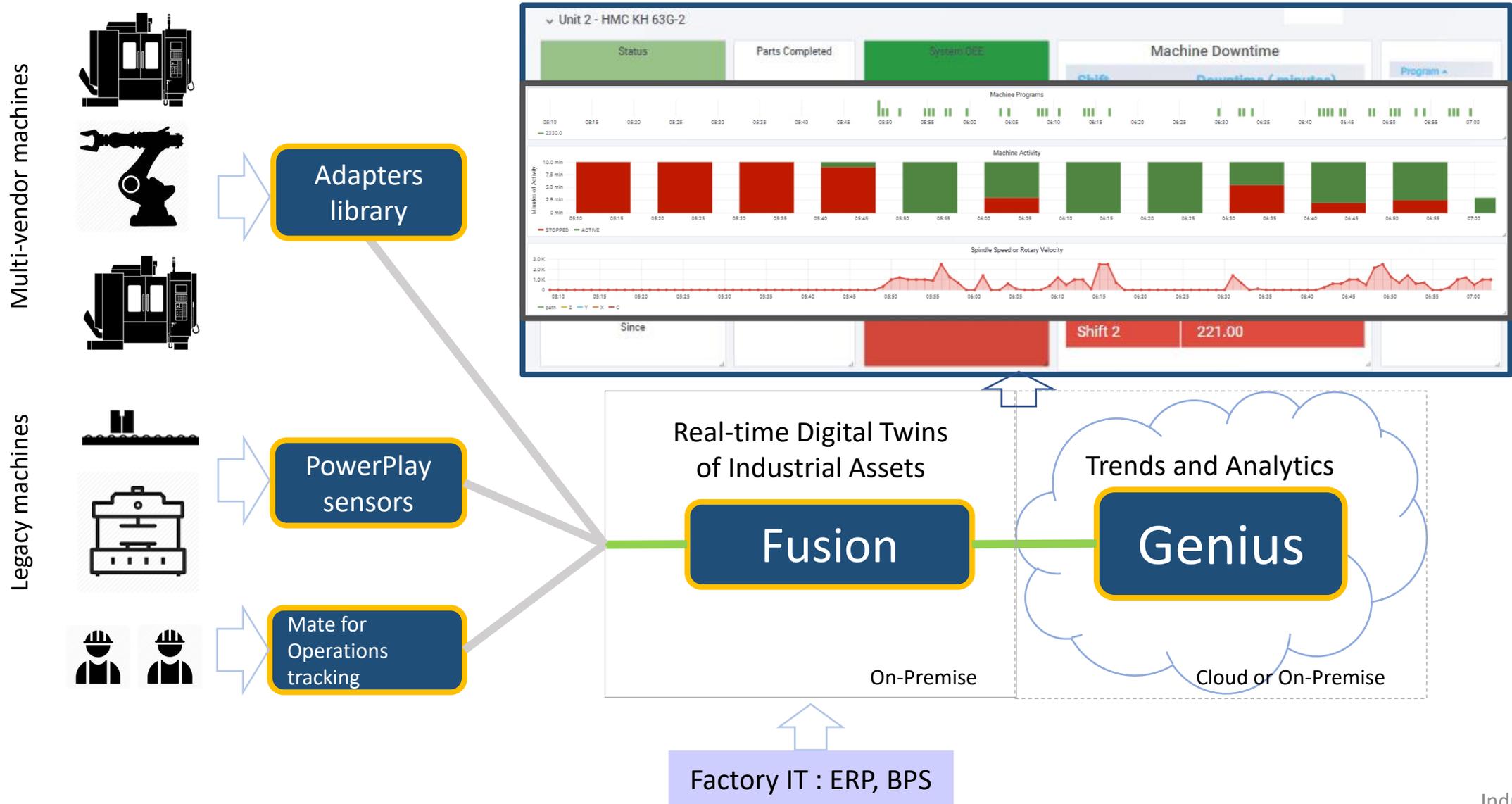


Automated Alerts

- Know issues immediately from anywhere
- Get key alerts in your email
- Automatic generation and clearing of alerts

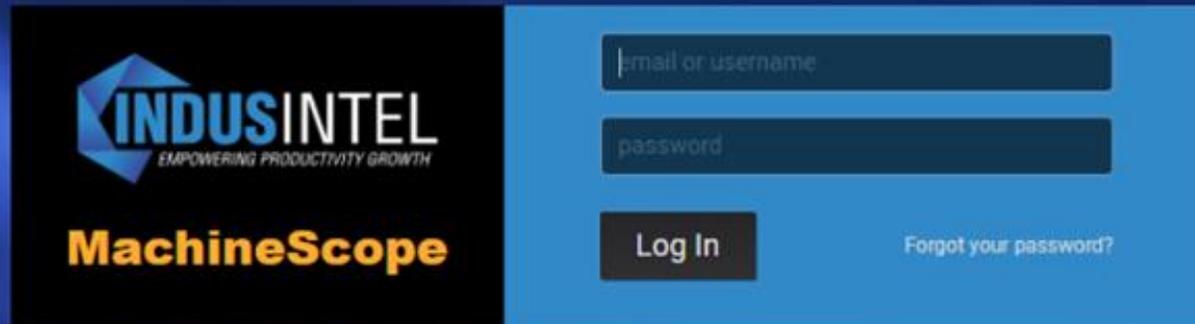


MachineScope: Purpose built Industrial IoT solution



Get Started Today!

www.IndusIntel.com



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EMPOWERING PRODUCTIVITY GROWTH

MachineScope

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

Source: Genpact Research Institute, 2016