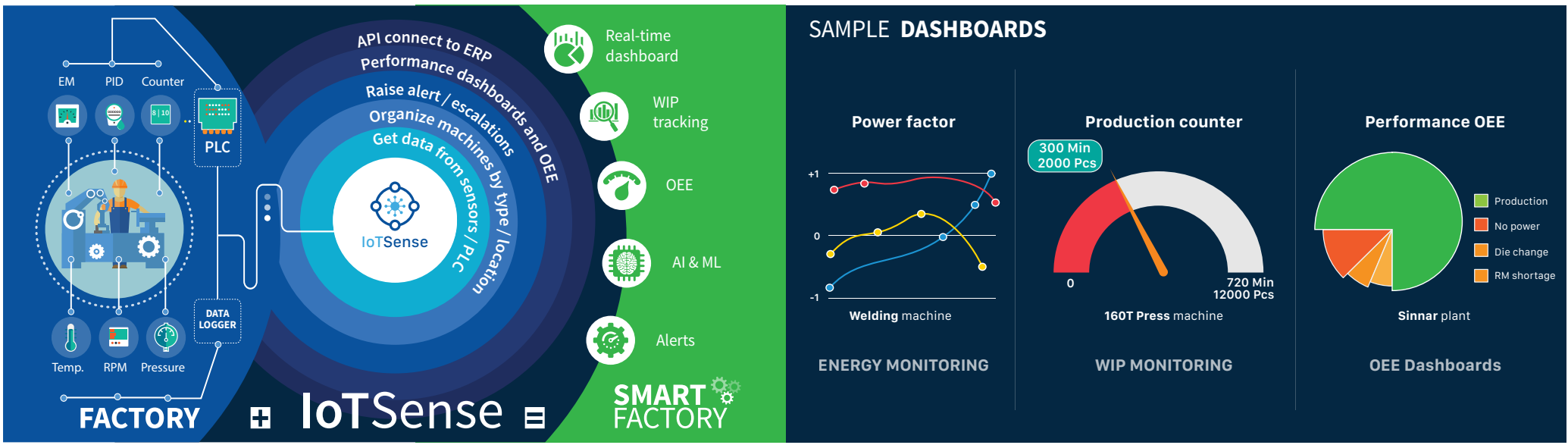# IoTSense

Industry 4.0 enabling platform

Overview

IoTSense is an award-winning full-stack IoT platform built using open standards and is one of the most versatile, scalable IoT platforms available. For the manufacturing domain, IoTSense can be deployed for the rapid transition to Industry 4.0 standards. The system can start delivering value in less than a week.

Platform USP's

- Connects operations technology to information technology
- Can be configured to read data from PLC via Modbus / OPC or any industry standard protocol
- For legacy machines the data can be enabled by retrofitting sensors
- Generate WIP reports and dashboards
- Create machinewise / plantwise OEE dashboards for availability, performance and quality
- Connect and integrate with IT solutions like PPC, ERP and enterprise level BI platforms
- Protocol support - 6LowPAN, Wifi, Bluetooth, LPWAN, MQTT

FACTORY
EM | PID | Counter
PLC
Temp. | RPM | Pressure
DATA LOGGER

IoTSense

API connect to ERP
Performance dashboards and OEE
Raise alert / escalations
Organize machines by type / location
Get data from sensors / PLC

SMART FACTORY

- Real-time dashboard
- WIP tracking
- OEE
- AI & ML
- Alerts

SAMPLE DASHBOARDS

Power factor
+1 / 0 / -1
Welding machine
ENERGY MONITORING

Production counter
300 Min 2000 Pcs
0
720 Min 12000 Pcs
160T Press machine
WIP MONITORING

Performance OEE
- Production
- No power
- Die change
- RM shortage
Sinnar plant
OEE Dashboards

Features

◉ Unified data definition to transform data in real-time

◉ Edge level machine learning

◉ Power of edge level computer vision

◉ Real-time data stream compression upto 30x

◉ Smart actionable triggers & intrusion detection

◉ Easy 3rd party application integration

Benefits / ROI

◉ Asset utilization and OEE reports

◉ Controlled, predictable and monitored manufacturing

◉ Data trends will enable predictive maintenance

◉ Health monitoring of operations in real-time

◉ Actionable data and indices

◉ Reduce operational losses while controlling key parameters

Monitor operations
✓ View progress
✓ Raise alerts for slowdowns / stoppages
✓ Transparency
✓ Analytics

Improve operational efficiency
✓ Timely actions on alerts to increase efficiency
✓ Predict and prevent downtime
✓ Reduce production losses by monitoring performance
✓ Improve quality

Reduce costs
✓ Reduce cost per component by doing more
✓ Predict preventive maintenance thus reduce downtime and cost of repairs
✓ Reduce rejections

Innovate faster
✓ Remote monitoring helps to manage in real-time
✓ 3D printing
✓ Full grown partnership ecosystem

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Awards

NASSCOM Emerge 50 Awards,
2017 - Most Innovative Product

BW Digital Leaderships & CIO Awards,
2017 - Best IoT Implementation

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