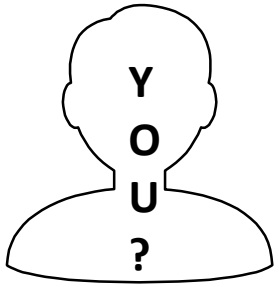
Do you get these thoughts?

I need to improve machine operational efficiency and be able to budget for each stroke or operation

I know that my machine runs 90% of the time; but suspect that the actual work performed by machine is less



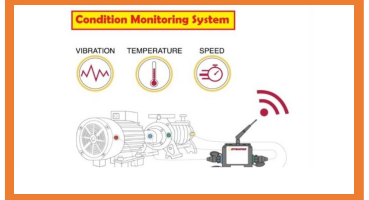
It takes me at least 15 minutes to know when a machine has failed thus resulting in productivity loss

I want to install additional sensors, analyze data and provide timely notification messages to respective stake holders

- Leading Industrial IoT Platform for Manufacturing Industry.
- Suite of IoT products catering to Pharma, FMCG, Machine Shops, Manufacturers, Automobile industry, etc.

S2R2 Suite

Production Monitoring



Condition Monitoring

Remote Health Monitoring

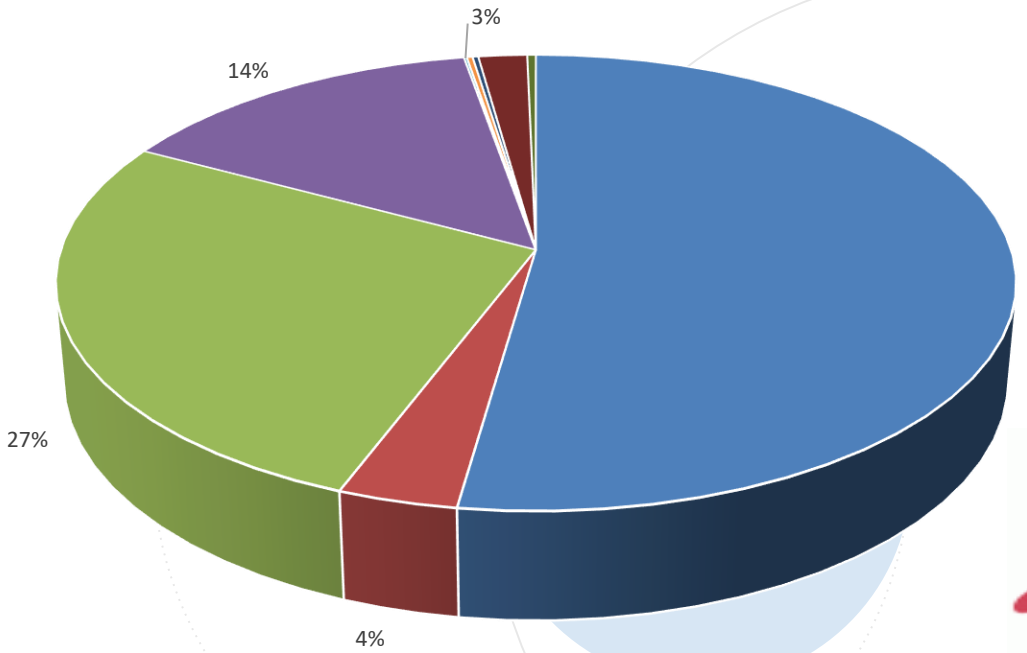
Customized IoT Solutions

650+ Adapters

50+ Customers

10 Million Records per day

Installed base



TATA MOTORS

KALYANI TECHNOFORGE

Saroj Group of Companies

TRIGO Global Quality Solutions

SKF

IAC International Automotive Components

FIAT

Godrej

RENISHAW apply innovation™

ASK

MICHELIN Group

entrib

KIE

JTA

JENDAMARK TECH | PEOPLE

RSB

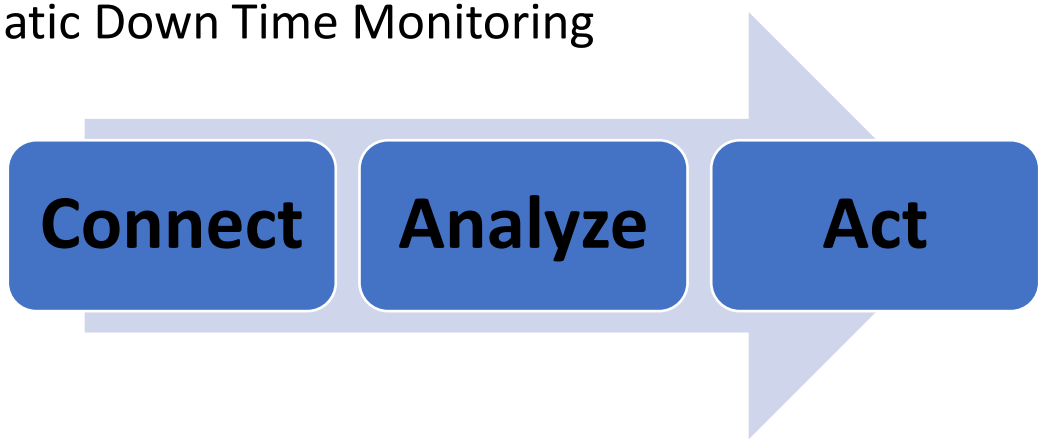
PURSHOTAM Your resource for industrial products

WERARDT

calibit

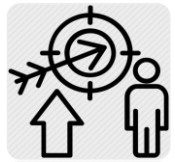
Production Monitoring

- Productized Industrial IoT Software Platform for Monitoring All Kinds of Machines
- Uses Edge Computing Devices, Data Lake and Analytical engine
- Optimize Machine Operations
- IoTize Legacy Manufacturing Machines (Acquire Production Data)
- Plug and Play Installation to Monitor OEE
- Automatic Down Time Monitoring



Real-time production visibility on the shop floor

Identify and act on the causes of downtime



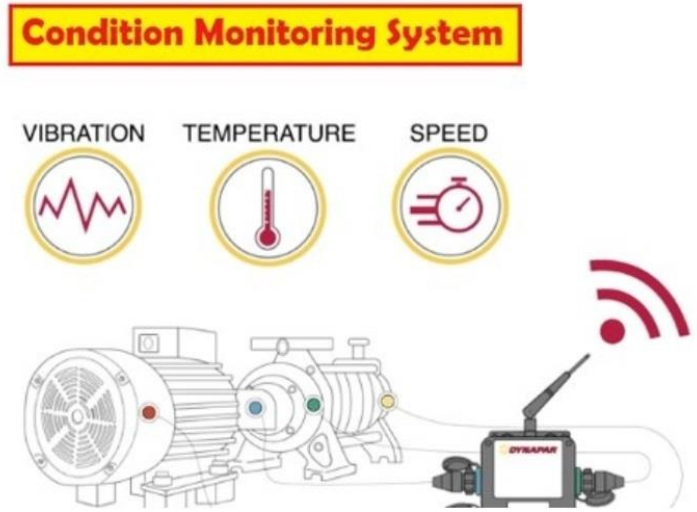
Performance evaluation of machine

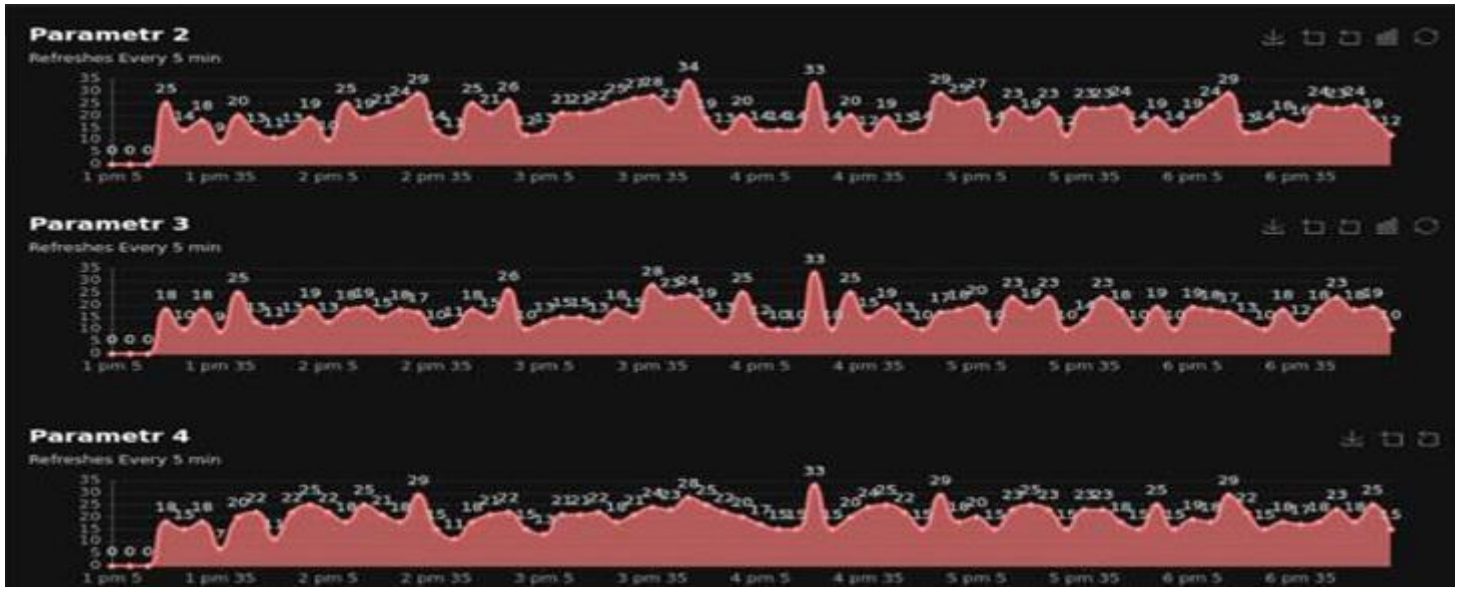
Identify process improvements at various levels

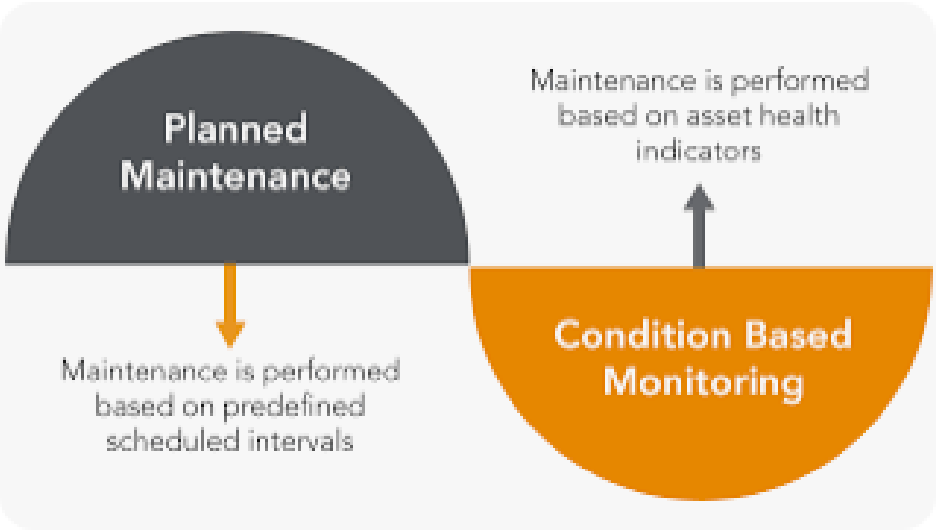
Seamless integration with external systems like ERP

Condition Based Monitoring

- Ready to use IOT Application platform for Condition Based Monitoring (CBM)
- Any Parameters or conditions like Temperature, Pressure, Vibration, Acoustic Noise, Humidity etc. can be monitored (with the help of sensors)
- Sample dashboard for temperature monitoring

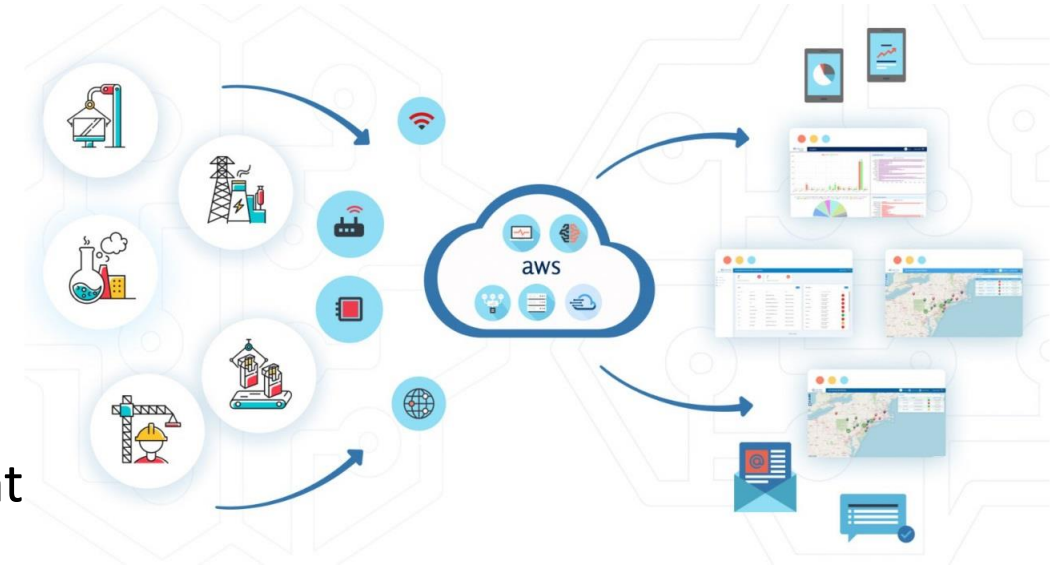




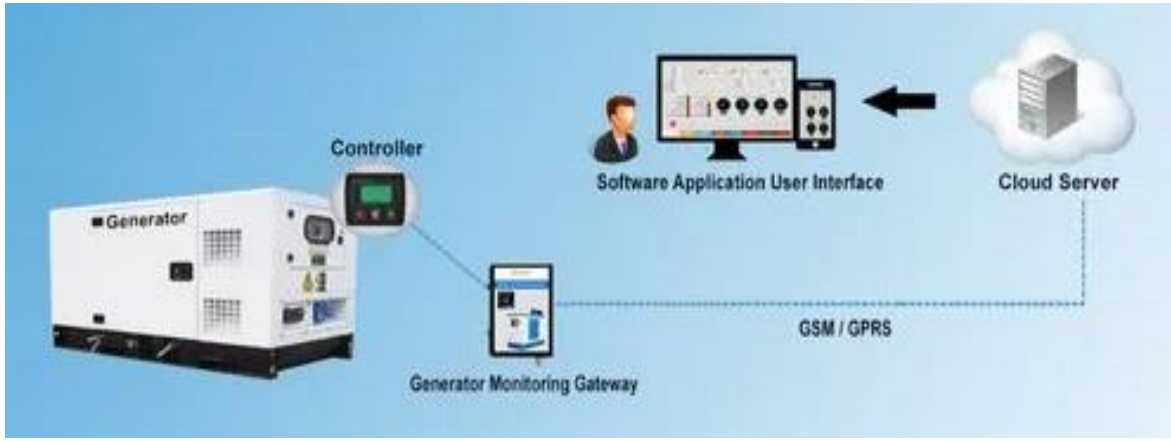


Remote Machine Monitoring

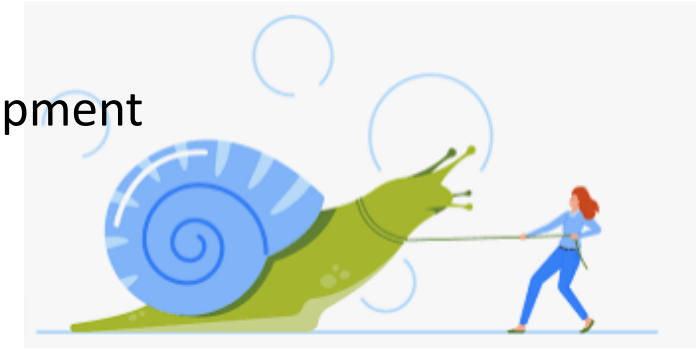
- Enable Tele-management of your equipment to:
  - ✓Manage it remotely
  - ✓Supervise its operations
  - ✓Receive immediate alerts for incidents
  - ✓Compare performance between different equipment
  - ✓Improve your efficiency and the competitiveness



- Enhance Up Time and Productivity of Equipment
- Bring down Warranty Costs
- Plan Service and Support Calls



- Legacy Equipment is a Big Road Block for the Digital Transformation



- S2R2's Hardware Device (Iotizer) can Acquire Data from any Legacy Equipment

- Industry grade standard chipset
- Digital and/or Analog Inputs/Outputs
- Wireless Communication
- Protocol: MQTT
- Easy to Configure and Maintain
- Web and Mobile App for Wireless Configuration
- Data Security: TLS 1.2 supported
- FOTA

Architecture: Block Diagram

PLCs

S2R2 Adapters

Siemens, A-B, Fanuc, etc.

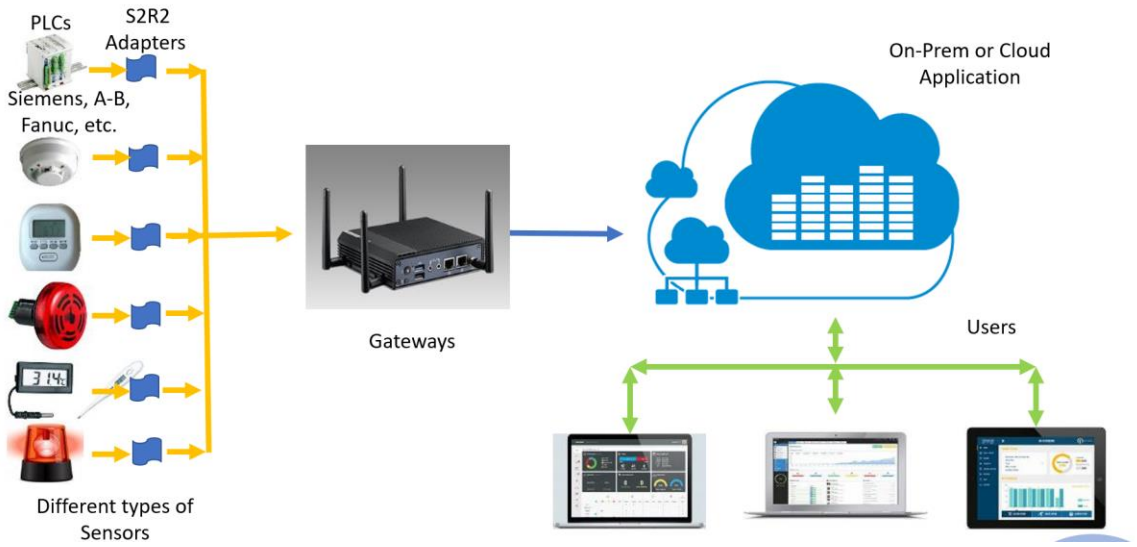
Different types of Sensors

Gateways

On-Prem or Cloud Application

Users

Remote Health Monitoring Overview



PLUG-AND-PLAY

INDUSTRIAL IOT PLATFORM FOR MACHINES

- Get critical health data of any asset by connecting S2R2's Edge device to asset's controllers and/or sensors
- Software on the edge processes data from the machine in real-time and streams the data securely to the S2R2's server for instant visibility into machine conditions

COLLECT PLC DATA

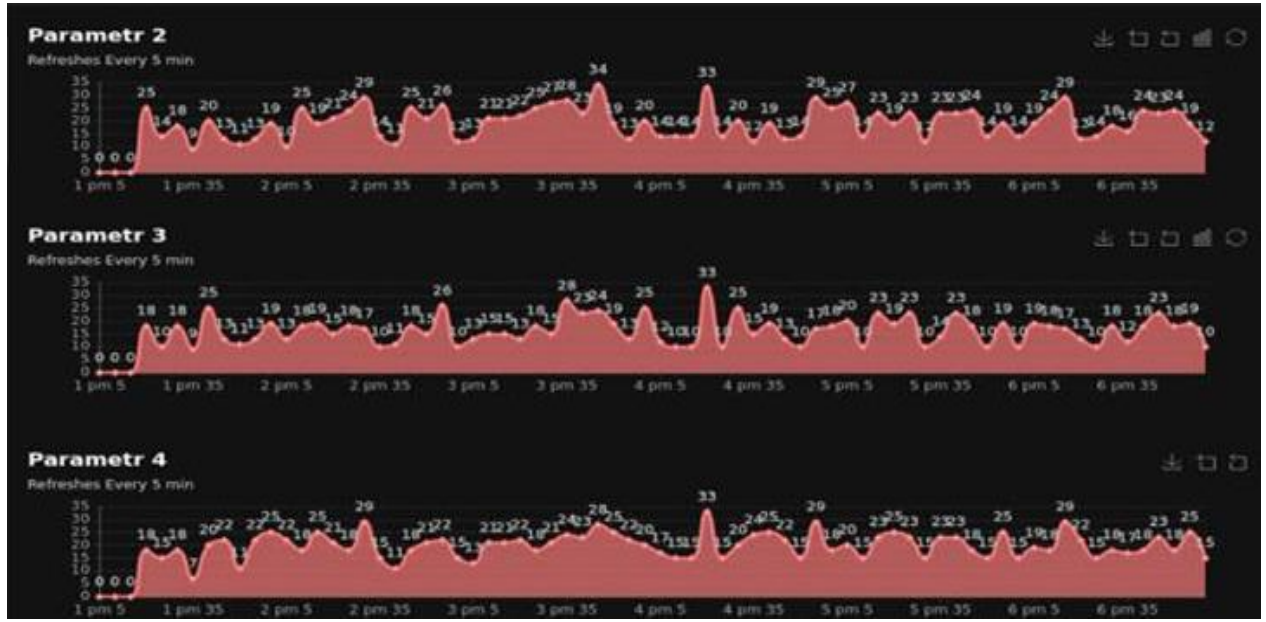
Automatically map out, collect, and standardize available data points like Internal Sensors, Machine Status, Modes, Alarms, Overrides, Load, Speeds, Feeds, and more.

CONNECT SENSORS EASILY

Add external sensors or connect older equipment with digital and analog IO that can be configured and managed remotely through web interface.

TRANSFORM DATA INSTANTLY

Automated capture and transformation, or contextualization, of machine data enables consumable machine data and insights in a matter of minutes.



ADVANCED MACHINE ANALYTICS

DIAGNOSE PROBLEMS WITH REAL-TIME INSIGHTS

- Analyze machine control and sensor data to avoid unplanned downtime.
- Display this data in real-time to visualize previously invisible aspects of machine conditions on the shop floor.
- View and export real-time machine data and alarms as time series data and charts to help diagnose and resolve problems

CONDITION MONITORING

View and manage the status and health of your machine assets; export real-time machine data and alarms as time-series data and charts to help diagnose and resolve problems.

REMOTE SERVICE

Instantly share machine data with your service provider so they can provide remote service and help bring your machines online quicker.

ALERTS AND NOTIFICATIONS

Alert the right person at the right time when action needs to be taken. Track incidents through a workflow with reassignment, resolution, and full audit tracking

Remote Health Monitoring: Advantages

- Preventive Maintenance
- Maintain Peak Unit Performance
- Offsite Support
- Repair Before Failure
- Monitor Operator Training
- Record-Keeping

Thank You!

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