Auring

Your machines are now talking, its time you start Listening them

Company Timeline

2016

Company Founded

Silver Partner for Microsoft

First Paying customer For Industry 4.0

2017

Selected as top 20 IOT start up by startup Bootcamp London

IOT Platform Launched

2020

Launched Edge Platform

Awarded best IIoT company category north by EFY 2020

2021

AI on Edge platform
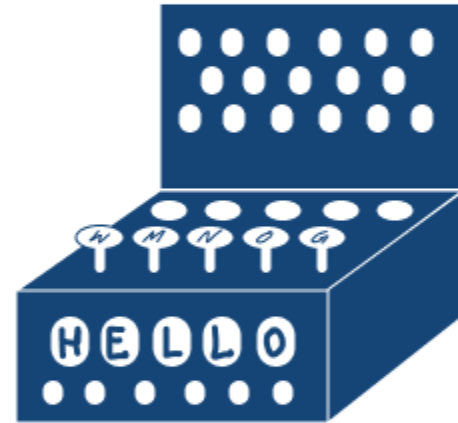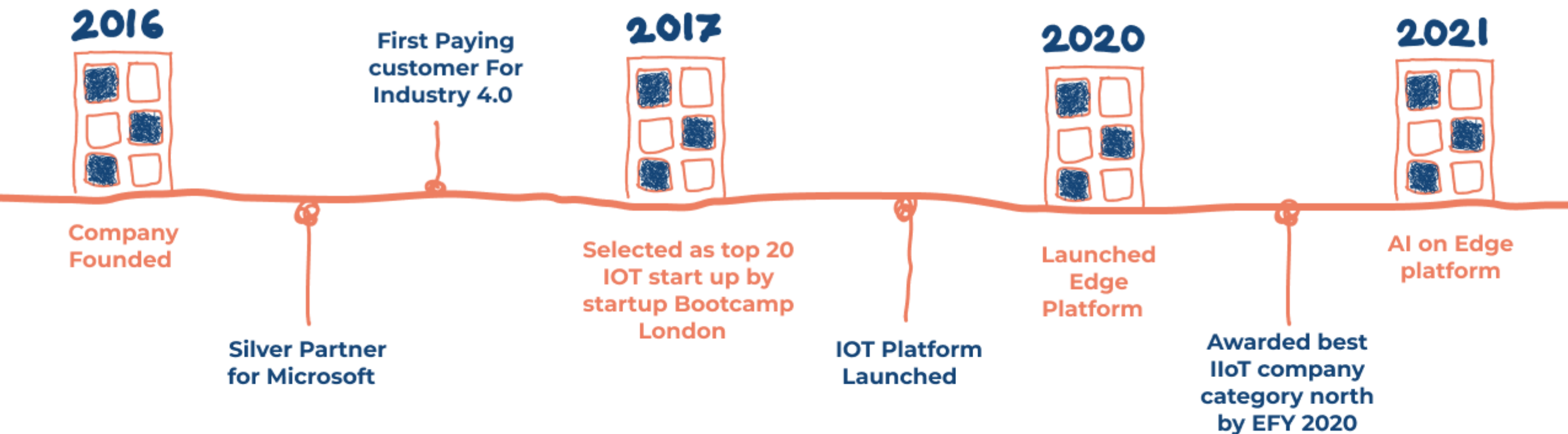
IIOT & its Challenges

Too Many silos due to OEM driver ecosystem

Network and implementation challenges at the shop floor.

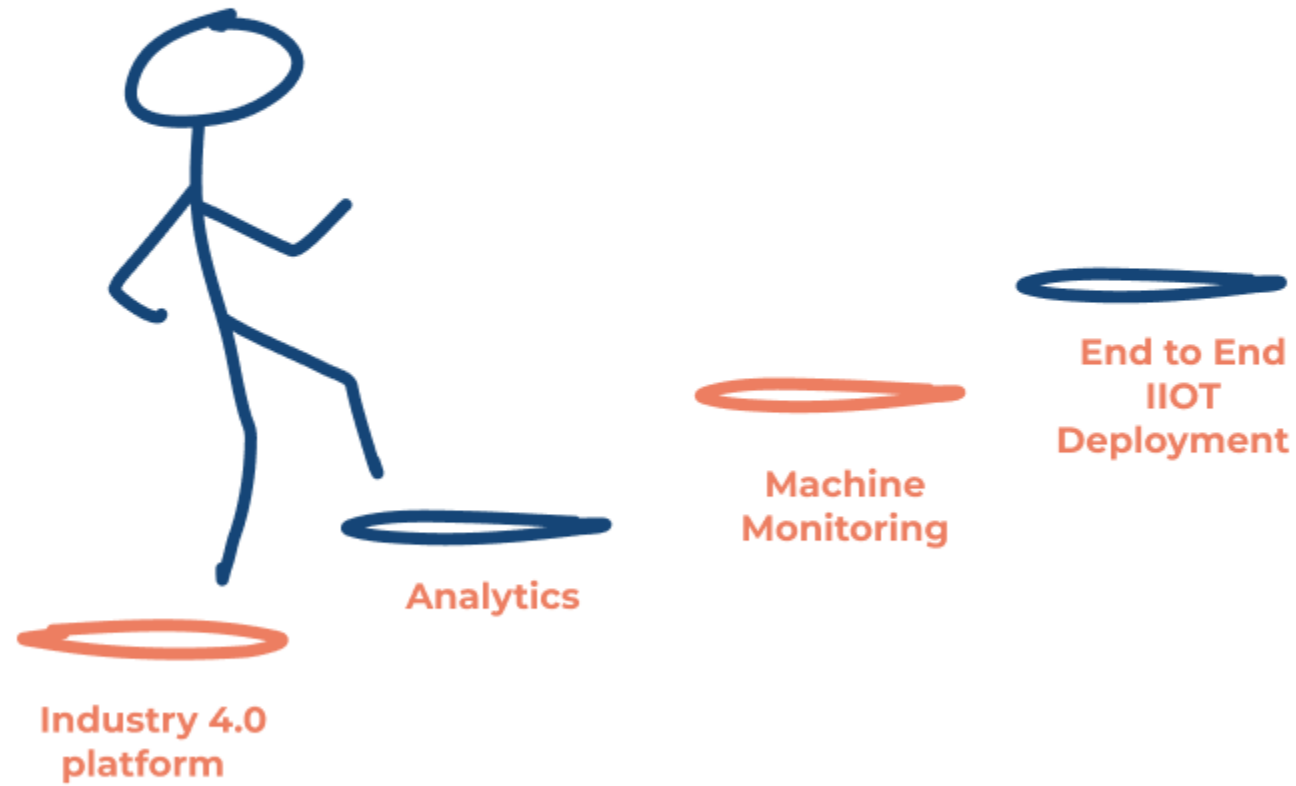Under & over utilization of machines.
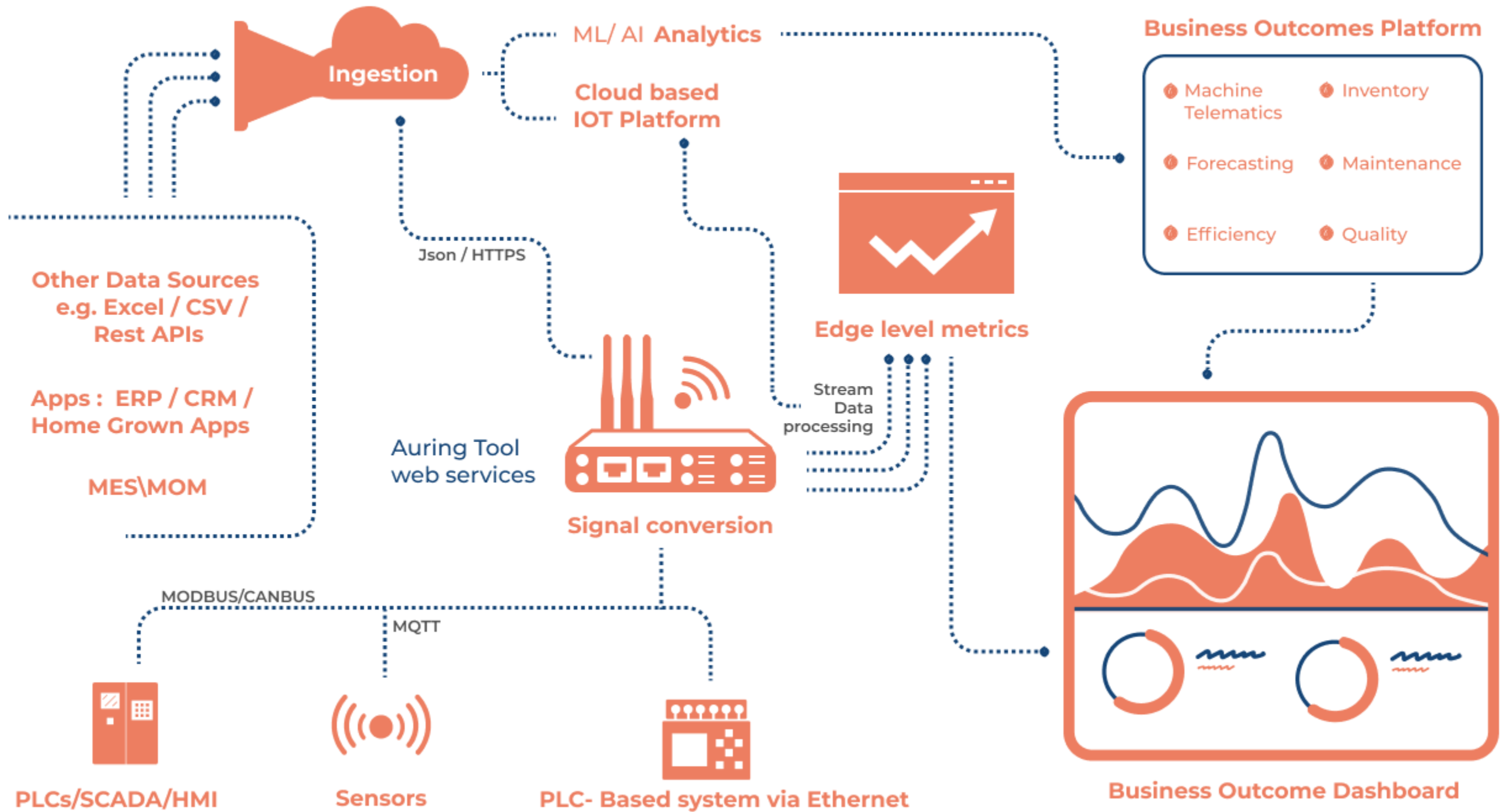
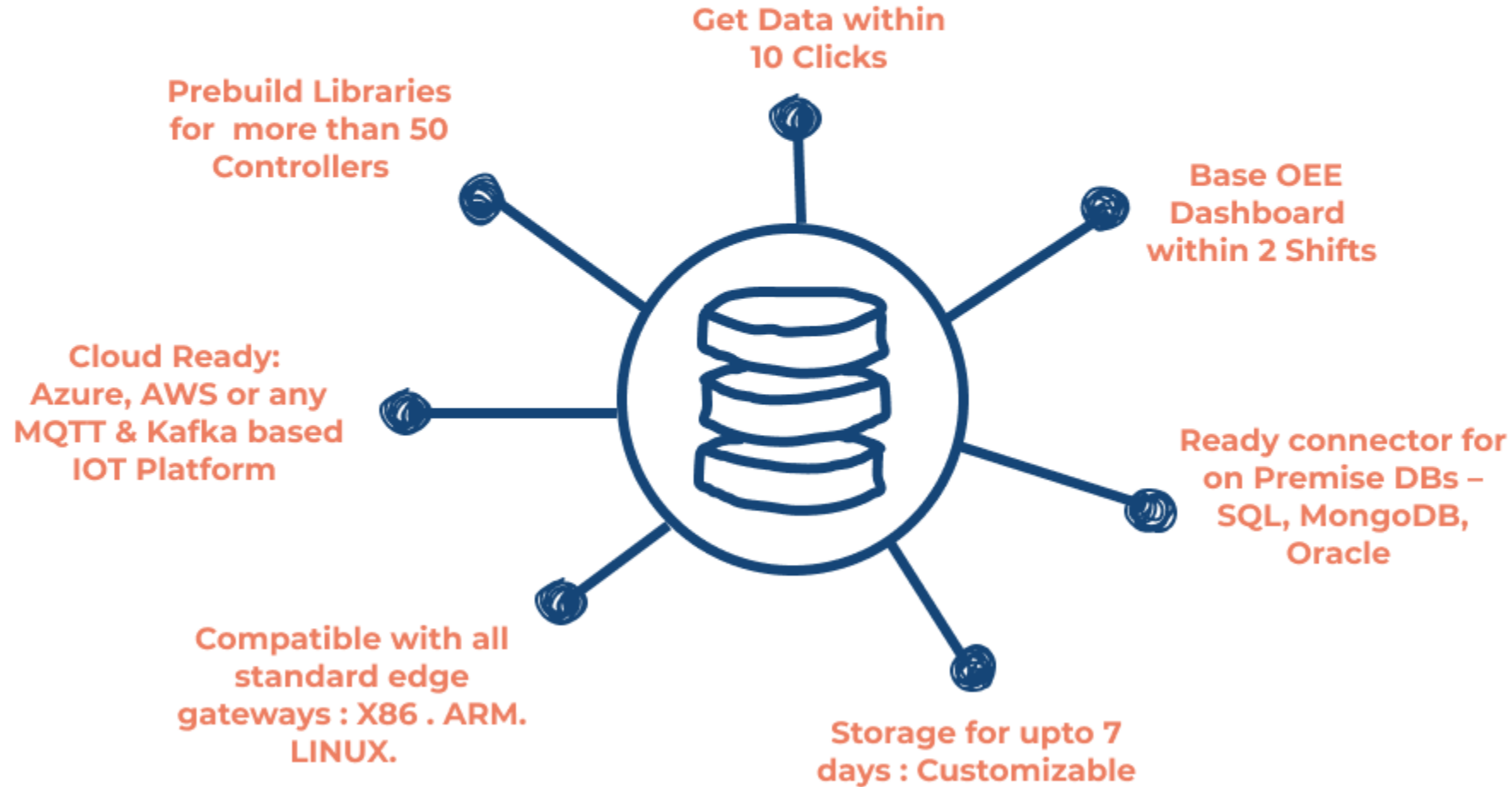Real Time action on data.

Dependency on humans for data capturing.

Data authenticity problem.

How we solve it?

Industry 4.0 platform

Analytics

Machine Monitoring

End to End IIOT Deployment

Ingestion

ML / AI **Analytics**

**Cloud based
IOT Platform**

Business Outcomes Platform

- Machine Telematics
- Inventory
- Forecasting
- Maintenance
- Efficiency
- Quality

**Other Data Sources
e.g. Excel / CSV /
Rest APIs**

**Apps : ERP / CRM /
Home Grown Apps**

MES\MOM

Json / HTTPS

Auring Tool
web services

Signal conversion

Edge level metrics

Stream
Data
processing

MODBUS/CANBUS

MQTT

PLCs/SCADA/HMI

Sensors

PLC- Based system via Ethernet

Business Outcome Dashboard

Auring Smart Edge Platform

Get Data within
10 Clicks

Prebuild Libraries
for more than 50
Controllers

Base OEE
Dashboard
within 2 Shifts

Cloud Ready:
Azure, AWS or any
MQTT & Kafka based
IOT Platform

Ready connector for
on Premise DBs –
SQL, MongoDB,
Oracle

Compatible with all
standard edge
gateways : X86 . ARM.
LINUX.

Storage for upto 7
days : Customizable

Industry Solutions

Sensor Based

- Power Monitoring
- Vibration Monitoring
- Temperature Monitoring
- Liquid Level Monitoring

Automobile Manufacturing unit

- Crank Case Monitoring
- Assembly Line Monitoring
- Cylindrical Block Line Monitoring
- Coolant Level Monitoring

Thermal Power

- Dry Ash Pipeline Monitoring
- Boiler Insulation Monitoring

Industry Solutions

Oil & Gas

- **Fin Fan Monitoring at Refinery**
- **Petrol Pump UPS Monitoring**

Coal Mining

- **Conveyor Belt Monitoring**
- **Three Phase Current Monitoring of Motor**

Retail

- **Footfall Monitoring**
- **Dairy Product Temperature**

Deployments

Yamaha – NCR Plant

Crank case line of 15 Brother CNC Machines.

Real time monitoring of over 40 parameter's from each machine polling every 30 seconds

Real time alerts of Alarms in Machine

Live monitoring of OEE and OLE

Yamaha – Chennai

Real time monitoring of over 30 parameter's from each machine polling every second running 24 x 7.

Real time alerts of Alarms.

Integrated Fanuc induction tampering machine line with 3 CNC machines.

Live monitoring of OEE.

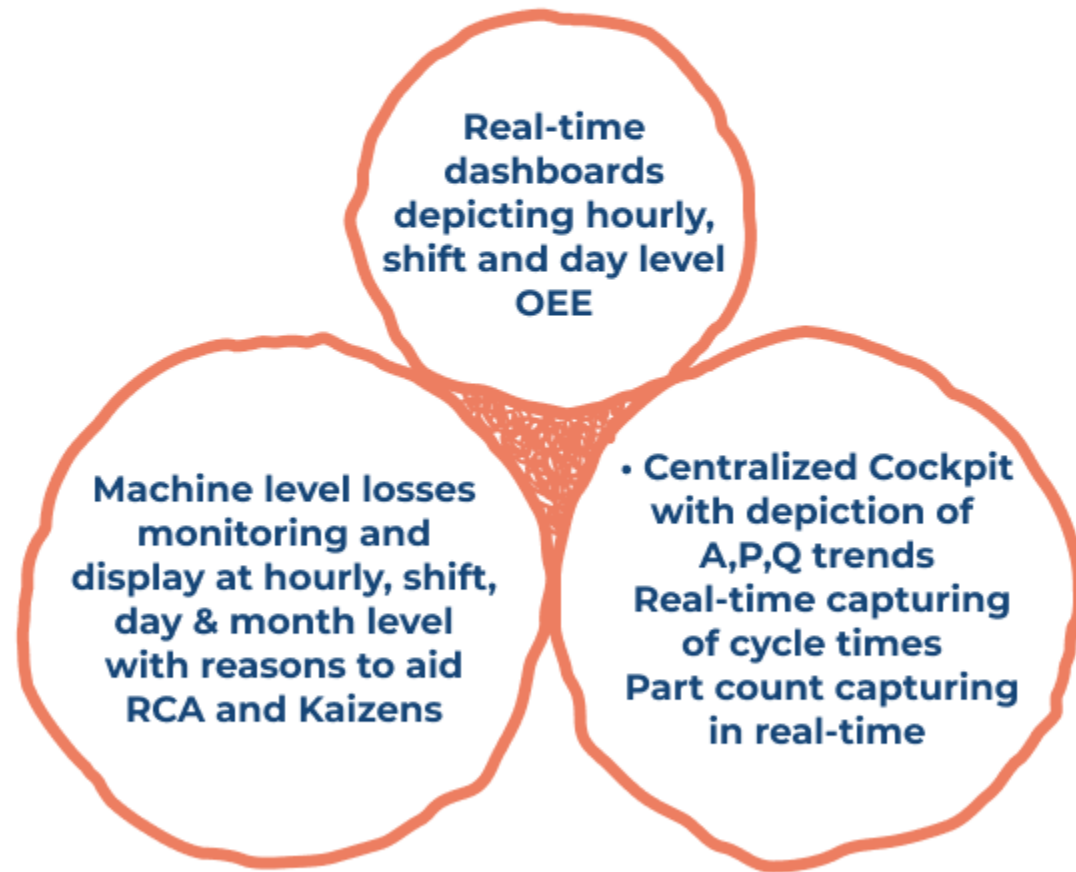# Bearings Manufacturing firm – Jaipur, Rajasthan

Integrated 14 Delta PLC's in Buncher section of house wire manufacturing unit.

Live monitoring of OEE

Real time monitoring of over 20 parameter's from each PLC polling every second running 24 x 7.

Real time alerts of Alarms.

Coal mining enterprise – Parsa, Chhattisgarh

conveyor belt PLC's via Modbus TCP.

Real time monitoring of over 15 parameter's from each PLC polling every second running 24 x 7.

Integrated on prem SCADA system monitoring

Integration with Microsoft Azure IOT Suite

Largest electrical equipment companies in India – Alwar

Live monitoring
of OEE

Real time alerts
of Alarms.

Real time monitoring of
over 20 parameter's from
each PLC polling every
second running 24 x 7.

Integrated 14 Delta
PLC's in Buncher
section of house wire
manufacturing unit.

Centralized OEE monitoring system

Real-time dashboards depicting hourly, shift and day level OEE

Machine level losses monitoring and display at hourly, shift, day & month level with reasons to aid RCA and Kaizens

• Centralized Cockpit with depiction of A,P,Q trends
Real-time capturing of cycle times
Part count capturing in real-time

Integrated Quality Management

Realtime capturing of production count and options for operator to classify OK/Not Okay and Hold status

Dashboard for pareto of reasons for rejection/ rework

Alarm Management System

Notifications to be deployed for :

- Downtime losses
- Quality rejections and on Hold notifications
- Maintenance job completion
- Anomalies detected for any CBM parameter
- Energy consumption
- Hourly SMS for KPIs

Customer Story

Pain points

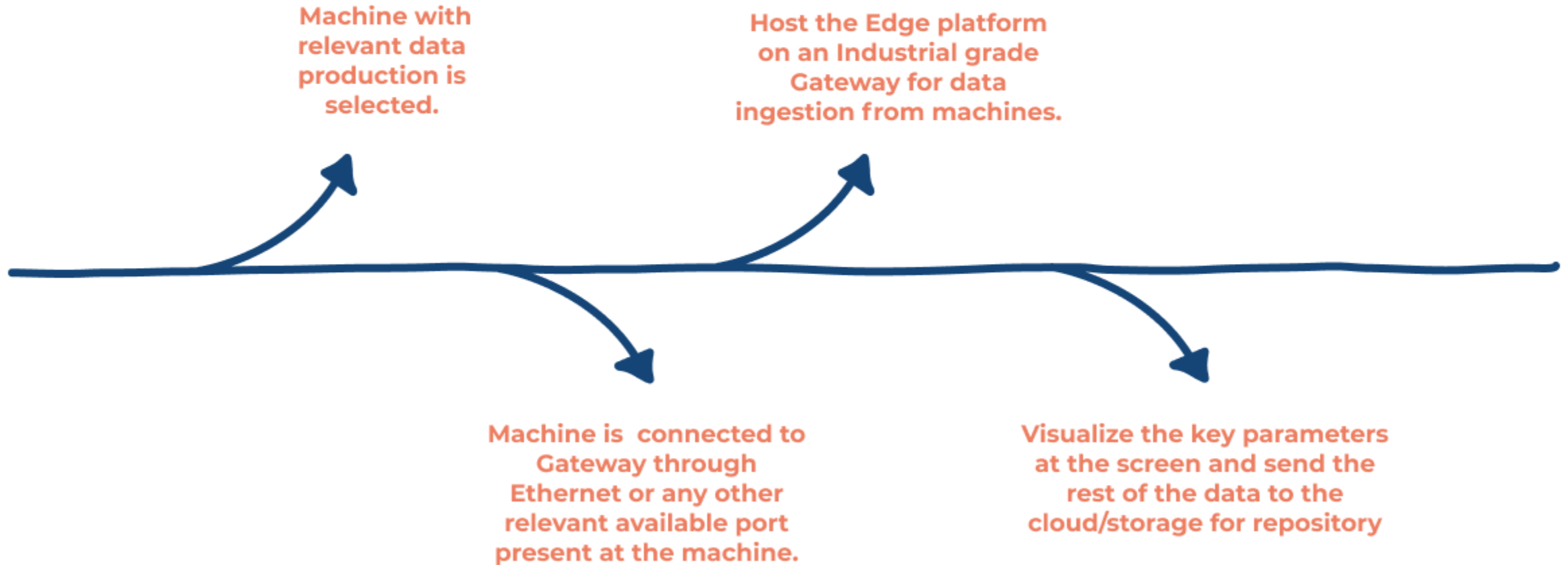Customer wanted to monitor the machines in real time

Real time OEE

Manual record of machines parameters and Needs to be checked before the shift creating a lag of 30 min after shift start.

Key KPIs achieved by the customer

Reduce Unplanned Downtime (Real time Uptime/Downtime)

Over and Under utilization of machines

Machine Maintenance status after every shift

Real Time check on the unit produced (good Job/Bad job Ratio)

Real time notification alarms from CNC

Approach

Machine with relevant data production is selected.

Host the Edge platform on an Industrial grade Gateway for data ingestion from machines.

Machine is connected to Gateway through Ethernet or any other relevant available port present at the machine.

Visualize the key parameters at the screen and send the rest of the data to the cloud/storage for repository

Customers and Partners

"Getting real-time information about the machines running in our factory is critical but a complex task. We trusted Auring for that and they delivered as expected" – **Lalit Sharma , Head of emerging Technologies , Yamaha**
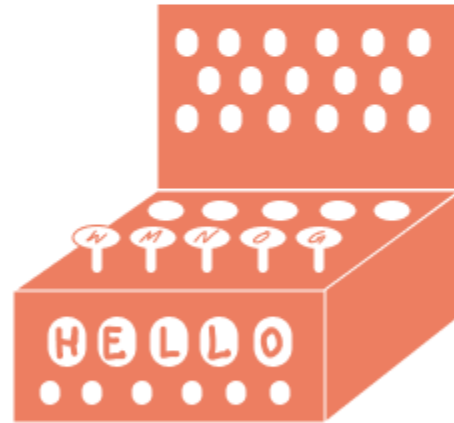
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