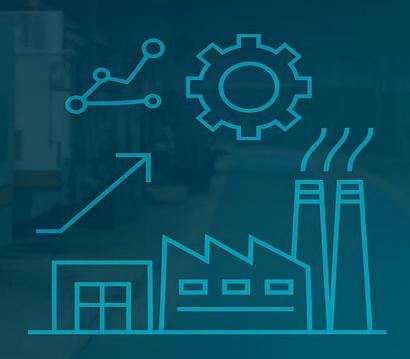
SALES PRESENTATION

ECUIDVISE Making equipment wiser for Safe, Sustained, and Efficient operations

EquipWise harmonizes industrial data to deliver real-time insights for safer and more adaptive manufacturing

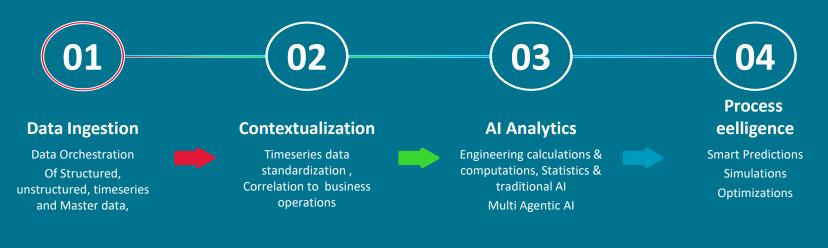


EquipWise Overview



Features (Functional & Technical)

EquipWise empowers enterprises to seamlessly collect, consolidate, and analyze equipment data, unlocking the full potential of Al-driven engineering calculations and advanced analytics. By harnessing the power data, manufacturers can optimize performance, enhance equipment sustainability, operational and ensure safety—leading to smarter, more efficient, and future-ready manufacturing.



Target Customers

Original Equipment Manufacturer (OEM)

Equipment Users

Equipment Leasing Services



Outcomes / Benefits

Enhanced & Efficient equipment availability, and performance

Enhanced safety on the MFG Shop floor

Extended equipment life span

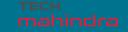
scheduling

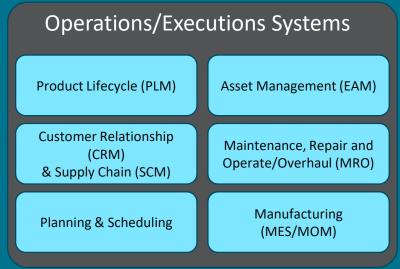
Proactive production

Minimized TCO

Real-time Analytics and Conversational UI

EquipWise Model







Data Structured Un-Structured Timeseries Analysis & Decision[Predict, Prevent, and analytics KPI/Compute Predict RCA/Why Simulate/What-if CAPA Optimize

Analysis & Decision-Making Systems [Predict, Prevent, and Prescribe]

- Decision
- What is the asset utilization and why
- How much can we produce tomorrow
- What should be the optimal running speed (for better COGS/Production-Volume)
- What will be the lease revenues
- What should be the resource planning
- What changes should I make in the next equipment version

Equipment DigitalTwin

Advanced KPI & Near Realtime monitoring

Operating cost (Monitor, Predict, Prescribe)

Safety (SOP Breach, Geo-fencing, Alarms)

Equipment upgrade suggestion

Predictive Maintenance & Quality

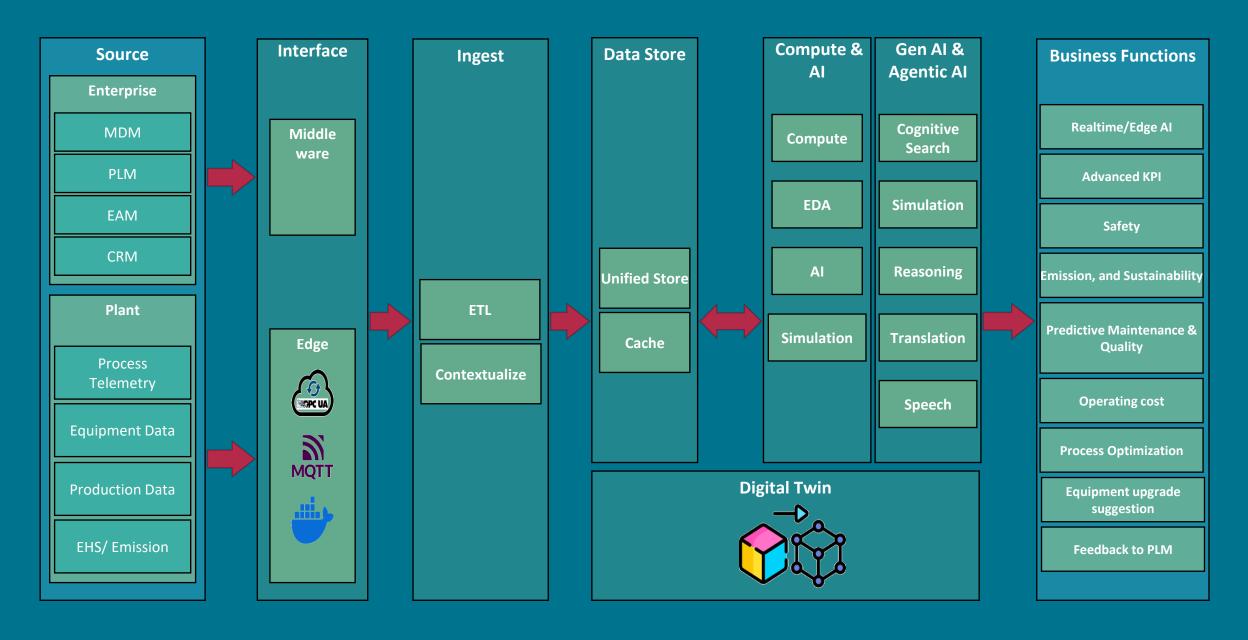
Emission, Compliance and Sustainability

Process Optimization
[Throughput Vs Running cost Vs
Quality]

Feedback to PLM (Equipment performance on specific site conditions)

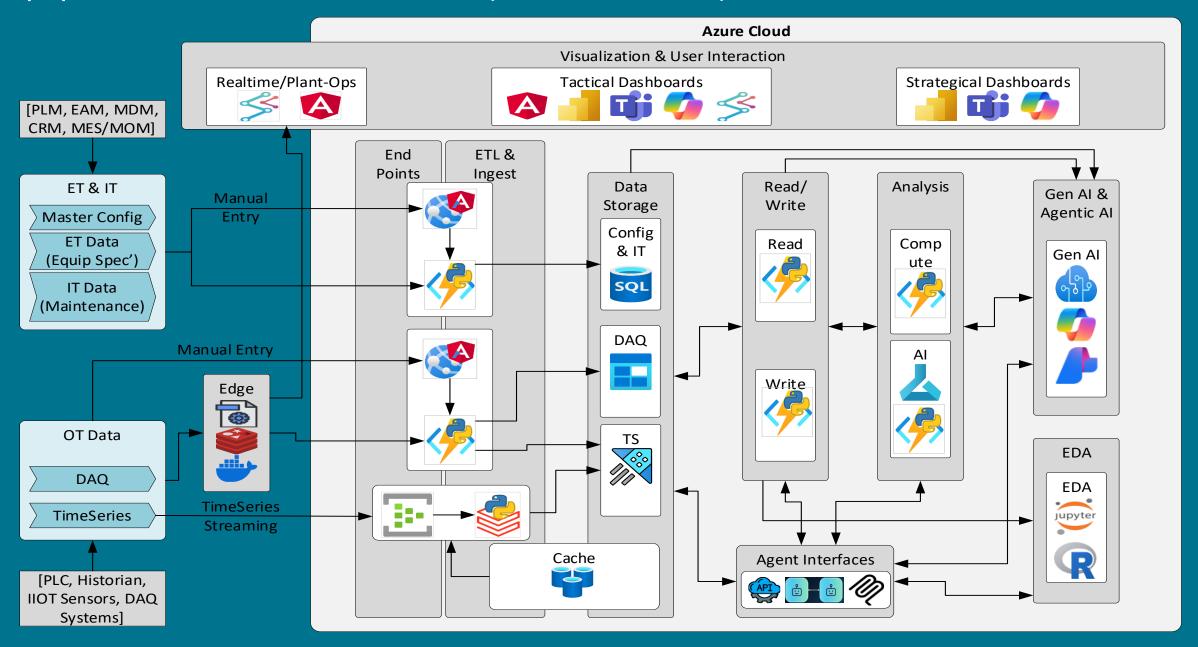
EquipWise Architecture (Based On Azure)





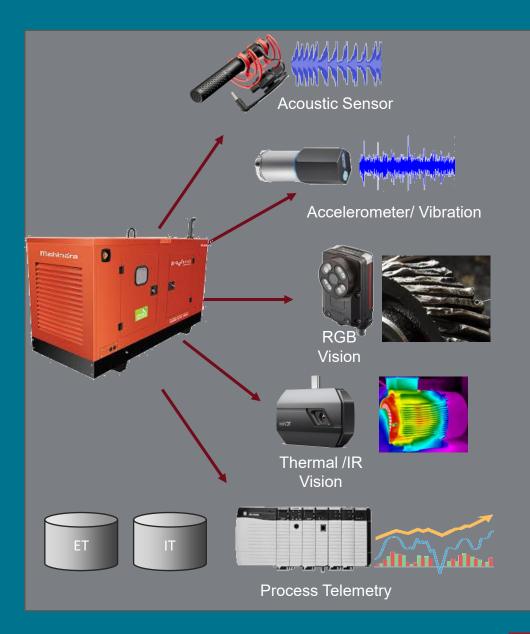
EquipWise Reference Architecture (Based On Azure)





Data Interface

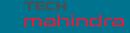


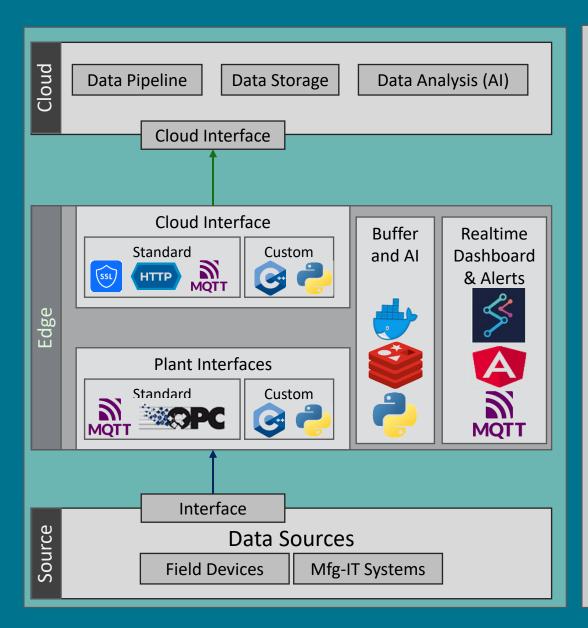


- Predictive Maintenance
- EHS/Safety
- Equipment level Process Simulation
- **Equipment Optimization**

	#	Machine Components	Acoustics	Vibration	RGB Vision	IR Vision	Process Telemetry
ı	1	Rotating (Pump, bearing, motor, gearbox,)	High	High	Low	Medium	Medium
	2	Repeating & Reciprocating (CNC, Robotics, Recip pump, auto IC engine)	High	Medium	Medium	Medium	Medium
l	3	Thermal (boilers, motor, bearing, heat exchanger, heaters, electrical contacts)	Low	Low	Low	High	Medium
	4	Metal to metal contact (Bearing, pully, chain, clutch, ball, screws)	Medium	Medium	Medium	High	Medium
	5	Material cutting (CNC, cutting tools/edges, power press)	High	Medium	Low	Low	Medium
	6	Fluid movement (Pipeline, valves, hydraulics/pneumatics)	Low	Low	Medium	Low	Medium
	7	Integrated equipment (CNC, Engine, hydraulic press)	Low	Low	Low	Low	High

Edge Compute and Operational Al





Plant Interface

- Standard interfaces like MQTT, OPC
- Equipment specific custom developed interfaces using
- Mfg-IT (like MES/MOM, QMS, LIMS,...) Interface needed for edge compute

Data Buffer

- Data for edge compute & AI
- Data for real-time dashboards
- Optimal network usage and handling spotty network
- Downsizing data

Edge AI

- Realtime highspeed analysis such as FFT, Acoustics, image processing, timeseries
- Realtime AI driven predictive maintenance, SOP breach, quality deviation
- Realtime guidance for operations optimization (set-value (SV) suggestion)

Realtime Alerts and Dashboards

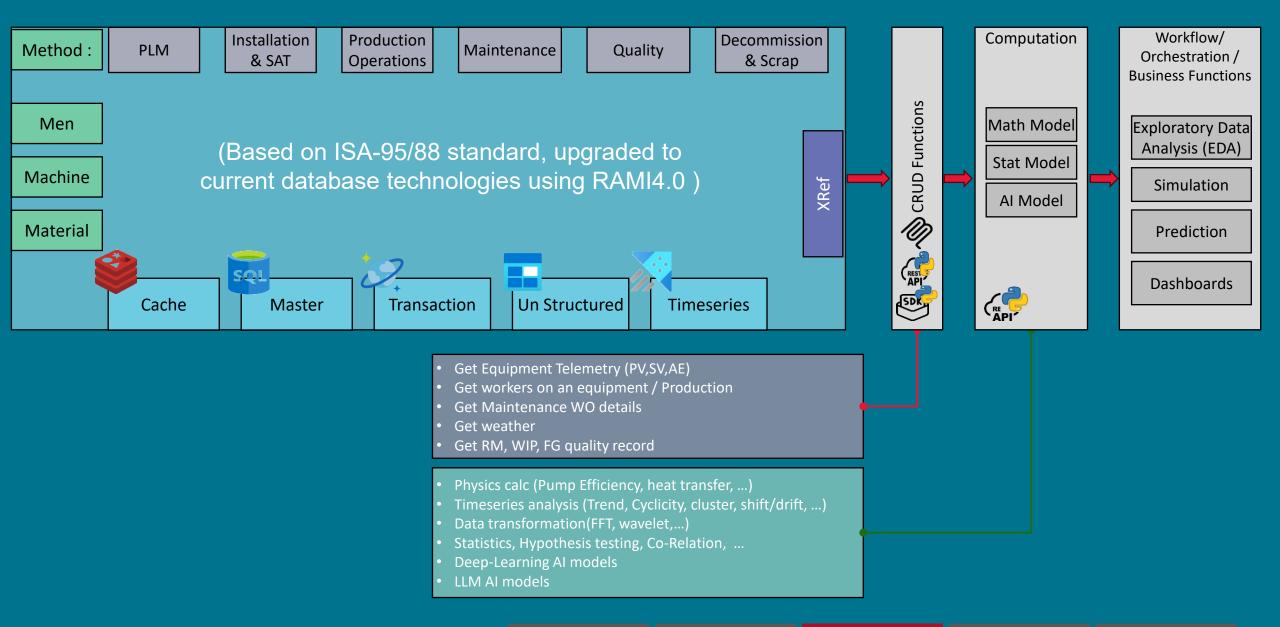
- High density and high-speed dashboards for engineers and technicians
- Realtime alerts annunciation channelled to required recipients

Cloud Interface

- Pushing data to cloud
- Configuration synchronization

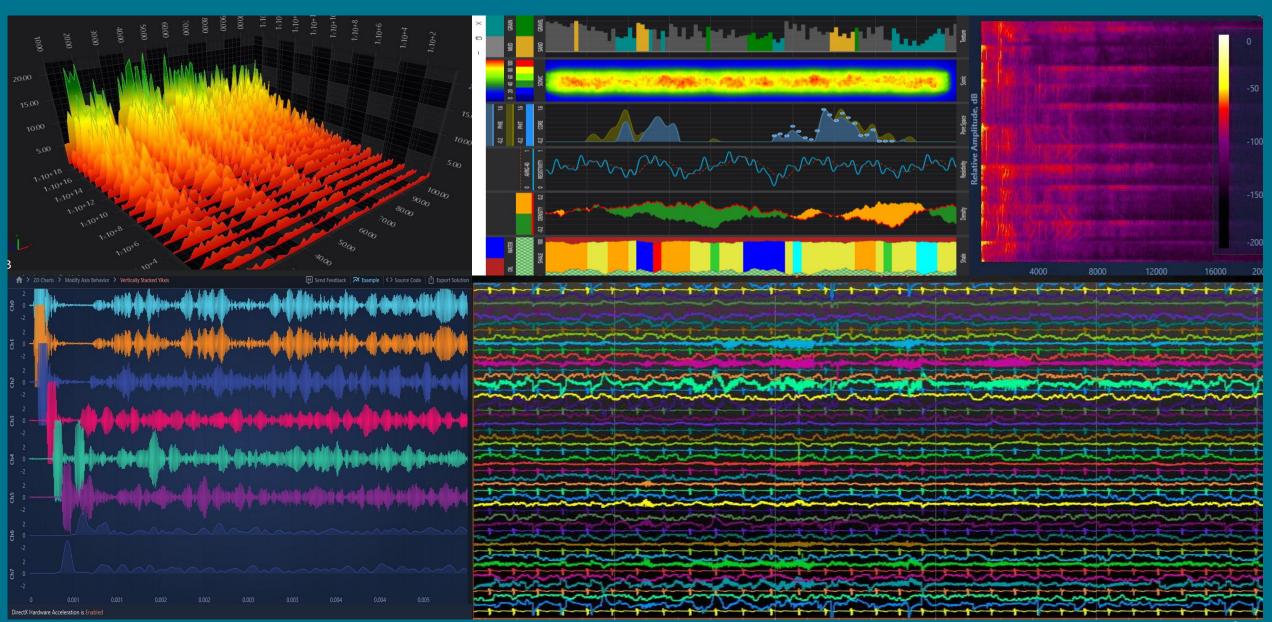
Data Storage





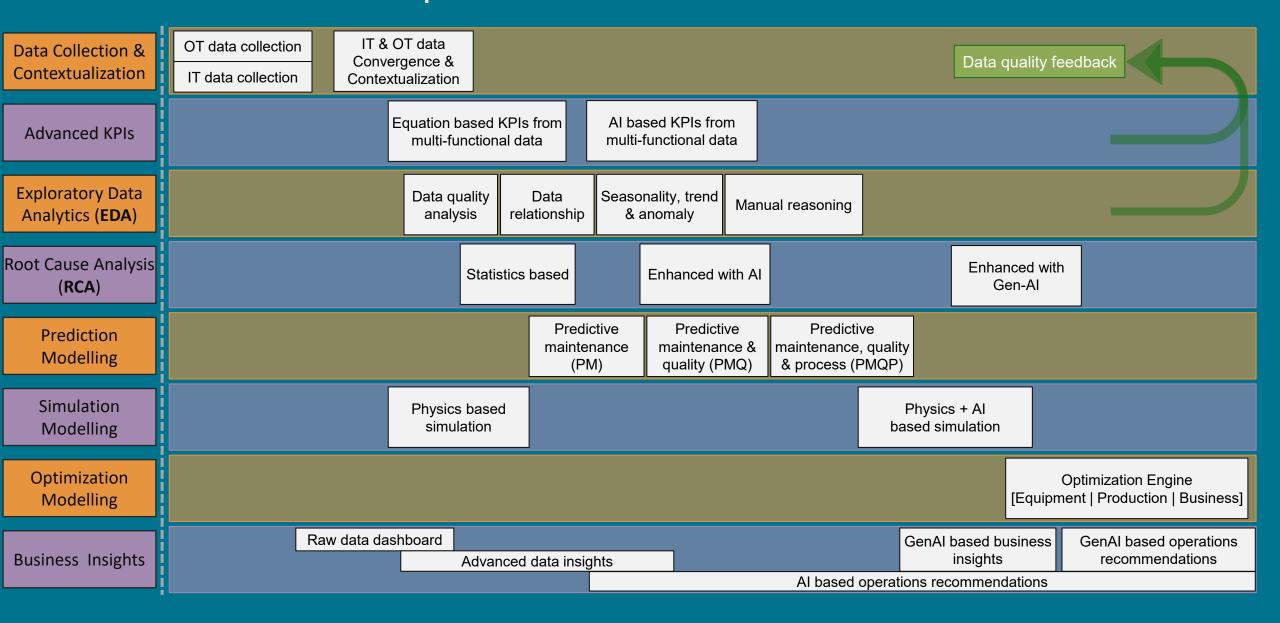
High Density Scientific Charts





Industrial AI - Roadmap



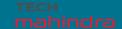


Data Driven Decision - Maturity Model

Level 1

is available.

Data is not curated



Level 0

 Data is scattered across systems. Some of them are not digitized/not accessible

Level 2

• Data is Curated.

BI is available

- KPI, Cross-Functional
- Unified data platform

Level 3

- Exploratory Data Analytics (EDA) is available
- Able to perform statistics like trend, co-relation and other DoE activities

Level 4

- Predictive maintenance, quality, & Process
- Simulate equipment and process for various floor conditions
- Find optimal running condition (optimized between throughput and COGS)

Level 5

- Generative Ai systems are available for
- data exploration
- Prediction
- Simulation
- Process optimization

Agentic Al Model





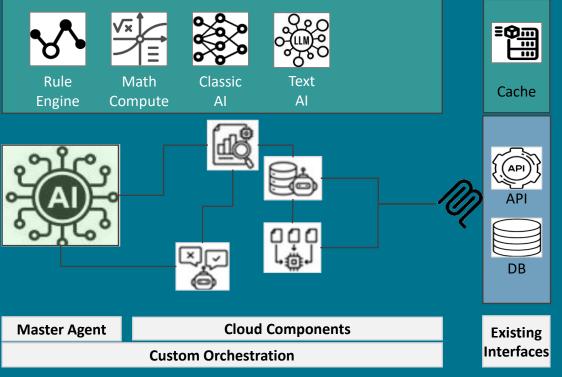






UI Chat Screen

- Classic chat
- Graphs
- Engg' drawing







Multi Language, Persona, & Function Support

Accurate and fast model using fusion of Math-Compute, Traditional-AI, and modern Gen-AI

Cost effective and accurate AI model using custom orchestration and Chat

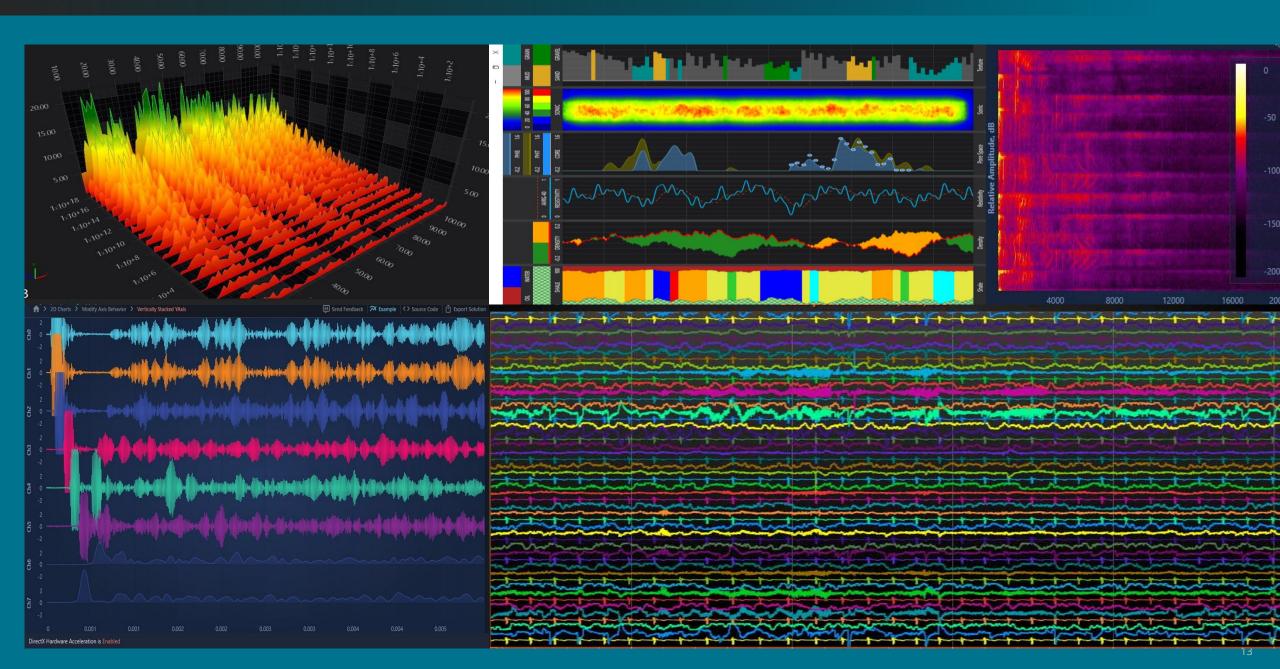
Fast and accurate Al model using Data Cache

Easy navigation using simple chat UI

Highly scalable using custom orchestration

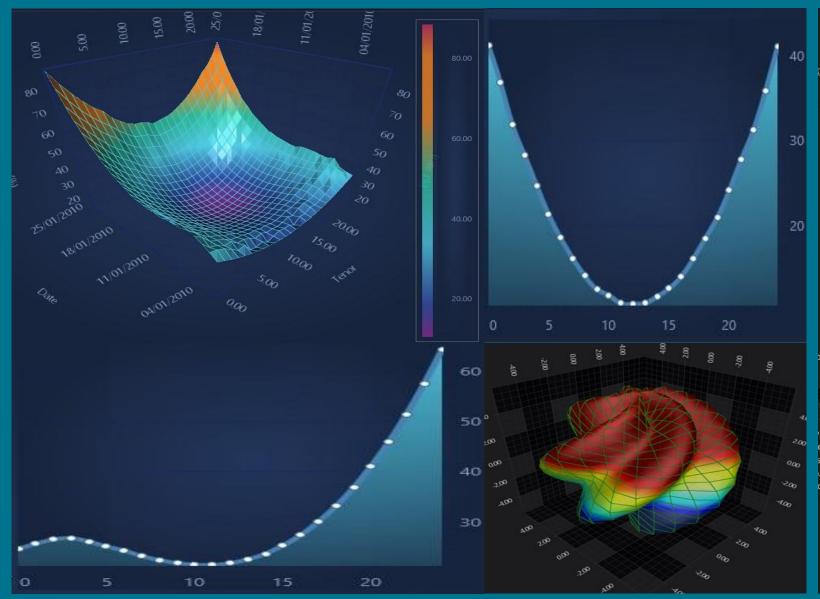
High Density Scientific Charts – 2D

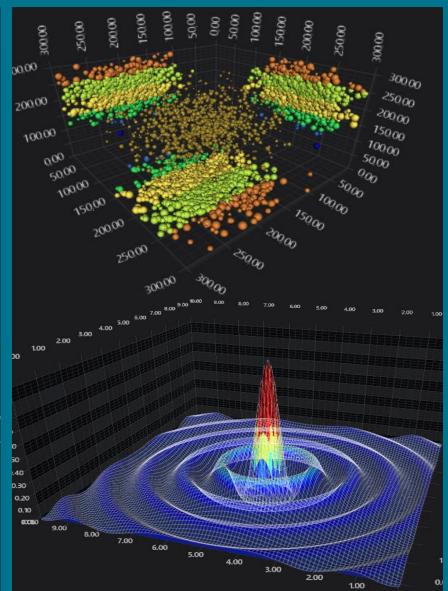




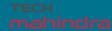
High Density Scientific Charts – 3D







Advanced KPI & Realtime Monitoring



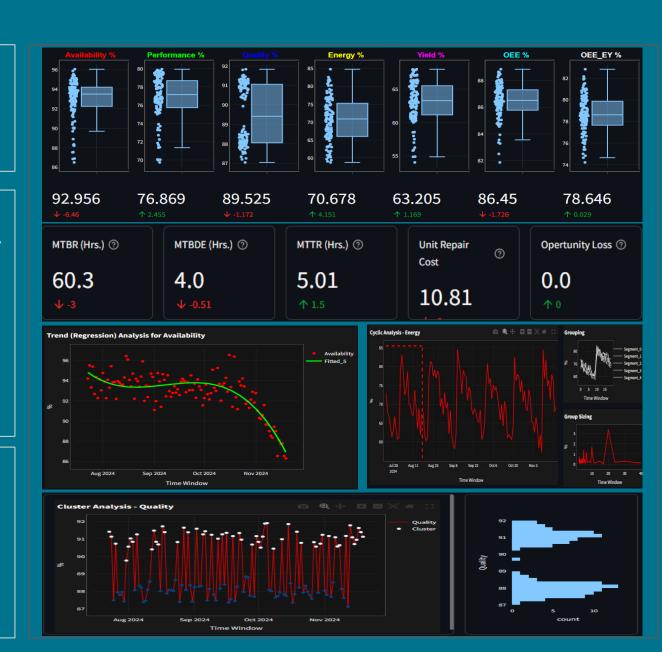
Challenges

- KPIs are based on calculations. They don't predict/forecast. Not forward looking
- Confined within one business operations system (EAM, SCM, CRM, ...)
- Not available across the Enterprise

Solution

- Collect & contextualize from all relevant data sources (IIOT, PLC, SCADA/HMI, Historians, PLM, EAM, SCM, and CRM)
- Advanced & scalable KPI calculation engine is built to derive KPIs and insights using the contextualized data
- Advanced prediction/forecasting feature is added using AI/ML
- Advanced live dashboards are added for easy visualization and interactive/exploratory analytics (EDA)
- Alarms/Incidents/Transaction data are overlayed for easy RCA

- Accurate & Enterprise-wide visibility
- Prediction on plant/equipment behavior in the feature
- Accurate and quick Root Cause Analysis (RCA)
- Better Corrective And Preventive Action (CAPA)



Predictive Maintenance



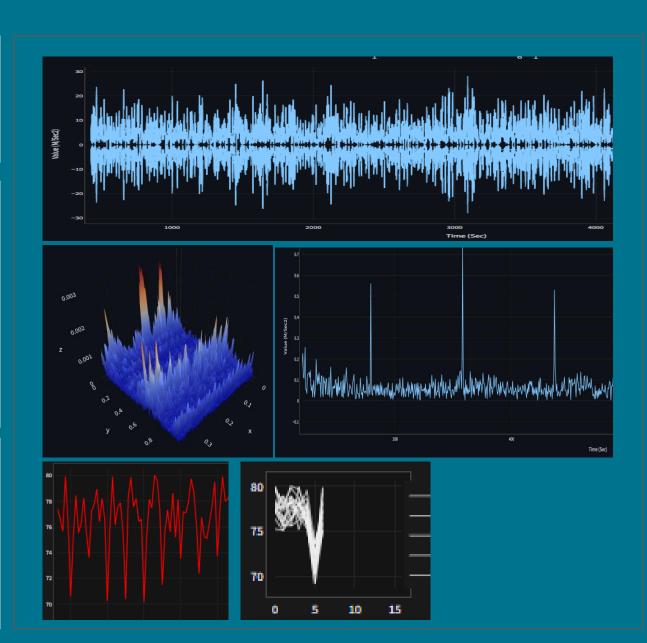
Challenges

- Equipment fails suddenly, leads to costly breakdown maintenance and production loss
- Unable to perform accurate production planning/scheduling

Solution

- Combine equipment/process telemetry, RM quality (if available), environment/ambience data
- Build reliability analysis like FFT/SW-FFT on vibration data
- Build physical computation model for standard components like motors, gears, pumps ...
- Build multi dimensional AI/ML models to predict anomalies and potential equipment failure

- · Increases equipment lifespan & reliability (higher MTBF)
- Reduced COGS
- · Reduced emission and improved sustainability
- Accurate planning & scheduling



Accurate Billing / Invoicing



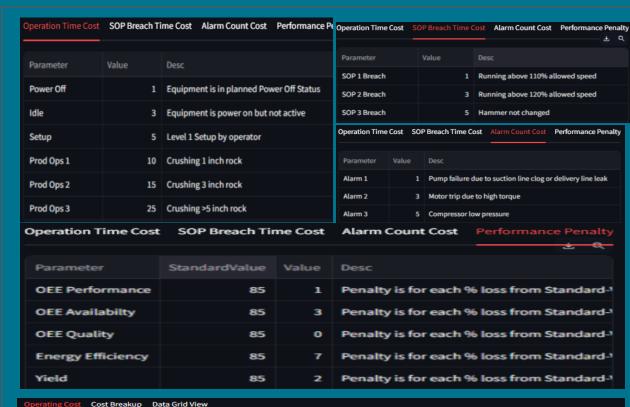
Challenges

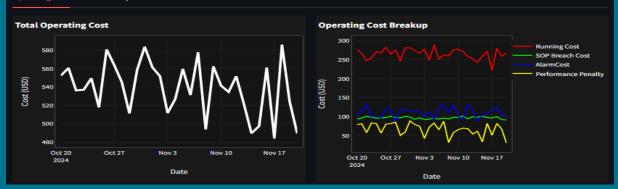
- Equipment usage invoicing/billing is based on basic measurements like production quantity and running Hrs.
- This do not consider actual events and equipment status

Solution

- Build a billing calculation engine considering the following
 - Actual running Hrs at various conditions
 - Actual production quantity
 - Any SOP breaches
 - Any production loss due to the leased equipment

- · Accurate equipment usage/lease billing
- · Reasoning for each cost element





Upgrade / Replace Suggestion



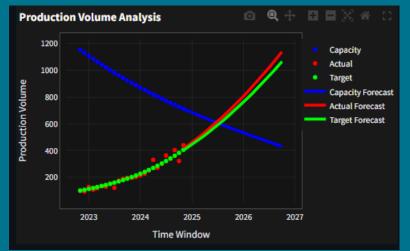
Challenges

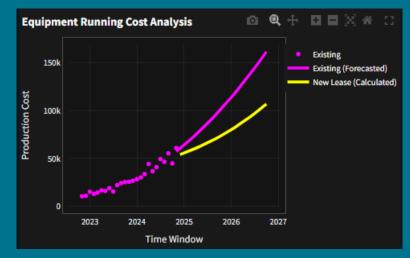
 Equipment wear out over a period, resulting into higher maintenance cost, emission and breakdowns. Industry is unable to perform the precise calculation to decide the optimal time to replace the equipment.

Solution

- Build an upgrade suggestion calculation engine considering the following
 - Trend in maintenance cost
 - Equipment downtime and hence loss in production
 - Any impact on product quality
 - Emission & Energy consumption
 - Production growth requirements
 - New equipment costs

- Reduced COGS
- · Reduced emission and improved sustainability
- Reliable plant operations & produciton





Availability_Initial	0.8
Availability_CAGR	-0.01
Performance_Initial	0.9
Performance_CAGR	-0.01
Quality_Initial	0.98
Quality_CAGR	-0.06
Energy_Initial	0.8
Energy_CAGR	-0.06
Recovery_Initial	0.9
Recovery_CAGR	-0.06
ProducitonTarget_Initial	100
ProducitonTarget_CAGR	0.06
ScheduledHrs	16