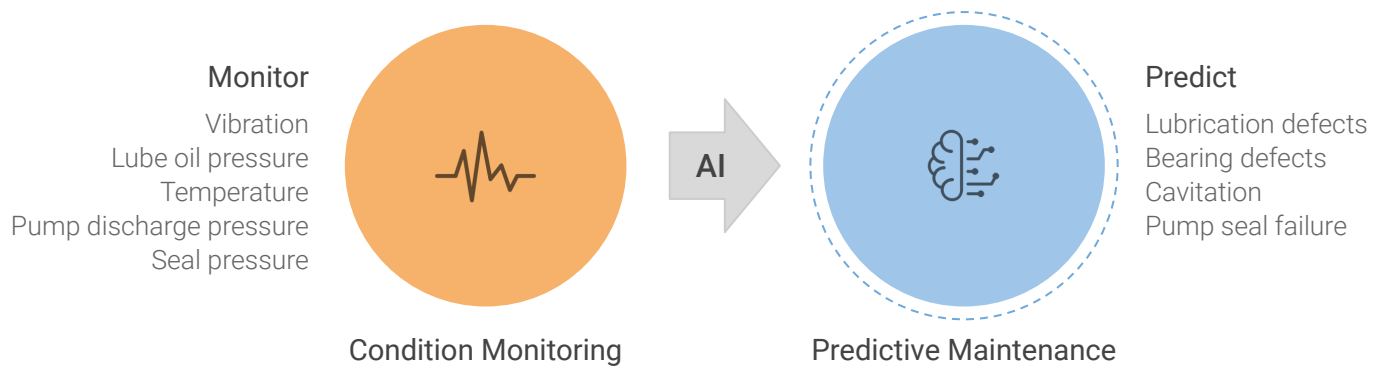


Predictive Maintenance

Transform from monitor-and-react to predict-and-act



Problem

Unforeseen asset downtime is a high operational risk to manufacturers, requiring deeper insights into asset health that IoT sensors and real-time condition monitoring alone are not able to deliver.

Current Limitations

The condition indicators, although useful, do not give enough time to plan. For e.g., overall vibration is a lagging indicator, as the problem or defect already exists.

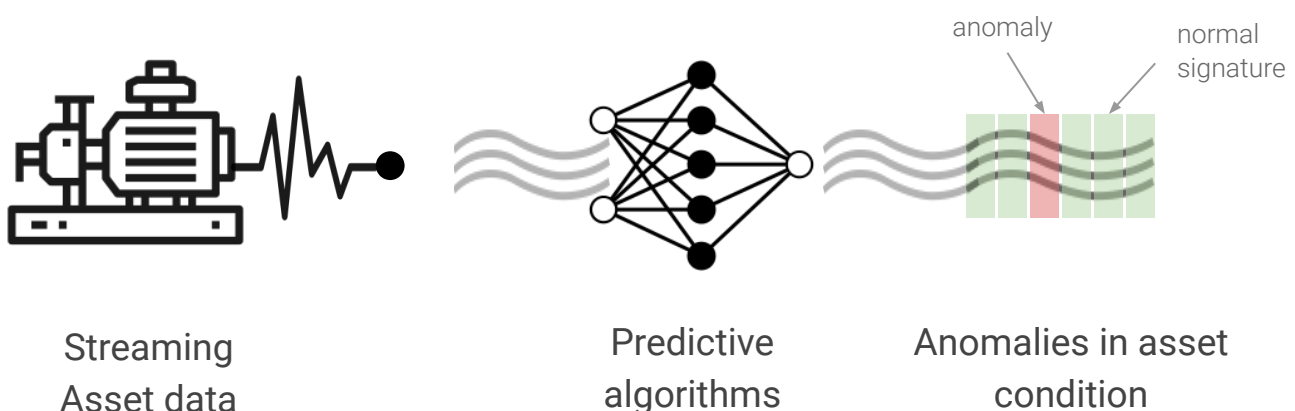
Also, setting the alert thresholds is a challenge. The varying nature of the process and product recipe leads to nuisance false alarms.

Solution

4Pointx PdM solution uses AI to automate the analysis. By correlating signals from multiple sensors, the solution detects anomalies (aka leading indicators) that usually show up as early as 60 to 90 days prior to the actual failure.

How it works?

4Pointx PdM uses predictive Machine Learning algorithms that continuously learn the normal behavior of an asset to detect any unusual behavior that could lead to a potential breakdown.



Features and key performance indicators

Predictive Maintenance

Automated ML that continuously monitors for any anomalies.

- Total assets at risk
- Assets by risk type:
 - Anomalies, minor alarms, danger signatures
- Diagnostic information
 - Top contributors
 - Deviation from closest normal signature
- AI model accuracy (% false alarms)

Condition Monitoring

Dashboards and alerts on various condition indicators.

- Vibration analysis (FFT)
- Temp, pressure, torque, tension
- Motor current, speed etc.

Adaptability & Scalability

Automatically adapts to the unique behavior of asset vis-a-vis the process.

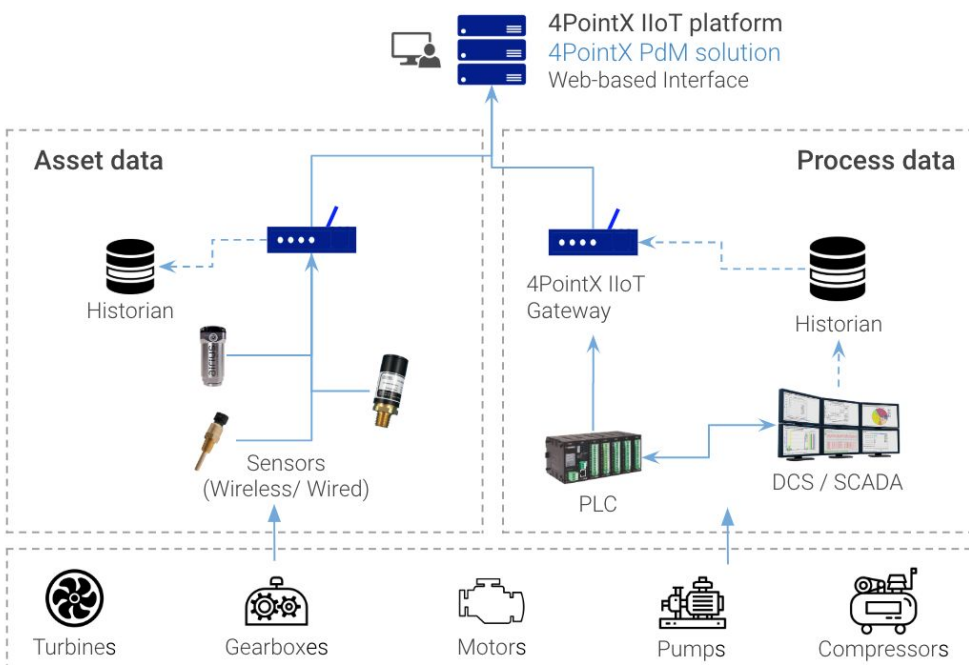
Scales easily to 1000's of assets and works even for new assets that have no history of failure.

A Comprehensive AI-Enabled Predictive Maintenance Plan Starts With Business Understanding.

- Gartner Recommended Reading, 04 December 2018

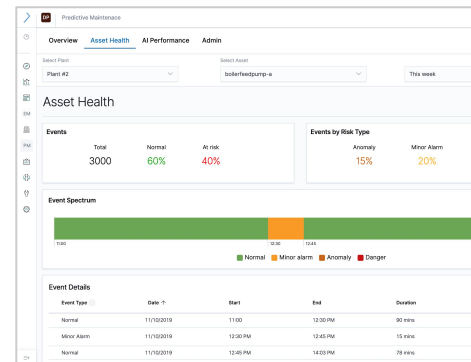
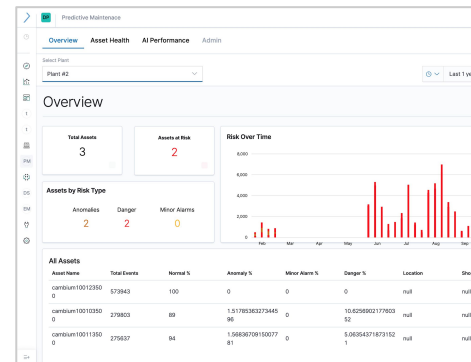
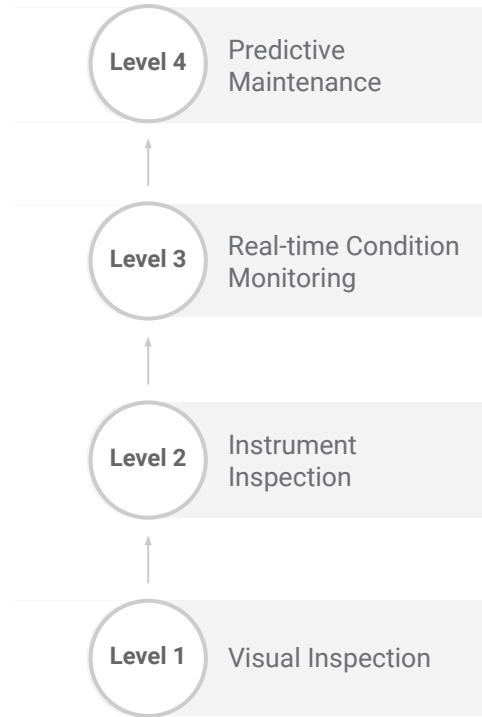
Deployment infrastructure and integration

4Pointx PdM is one of the many industrial apps on the 4Pointx IIoT Platform that integrates with Plant's automation systems and IoT sensors for acquiring Process and Condition data.



4POINTX

PdM Maturity Levels



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