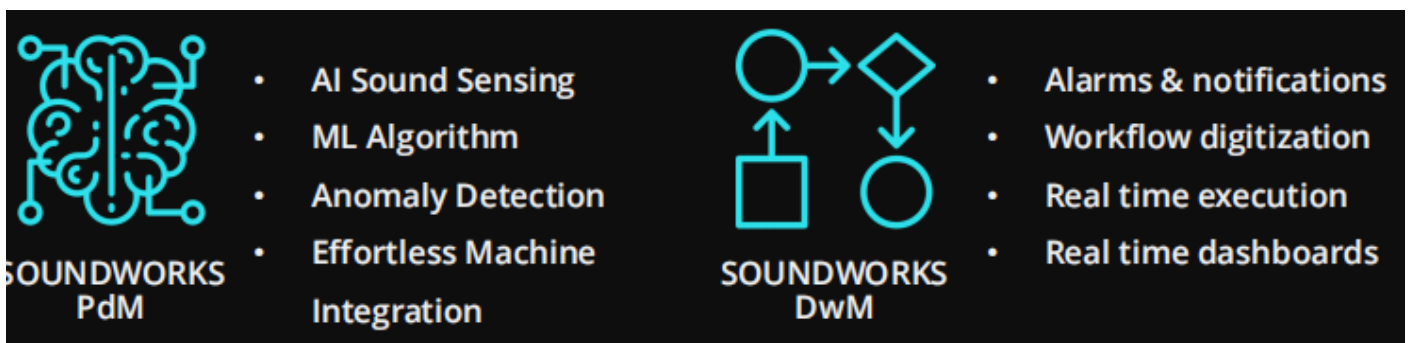# Predictive Maintenance (PdM)

Maximizes equipment uptime and longevity by proactively identifying potential issues before they cause costly breakdowns
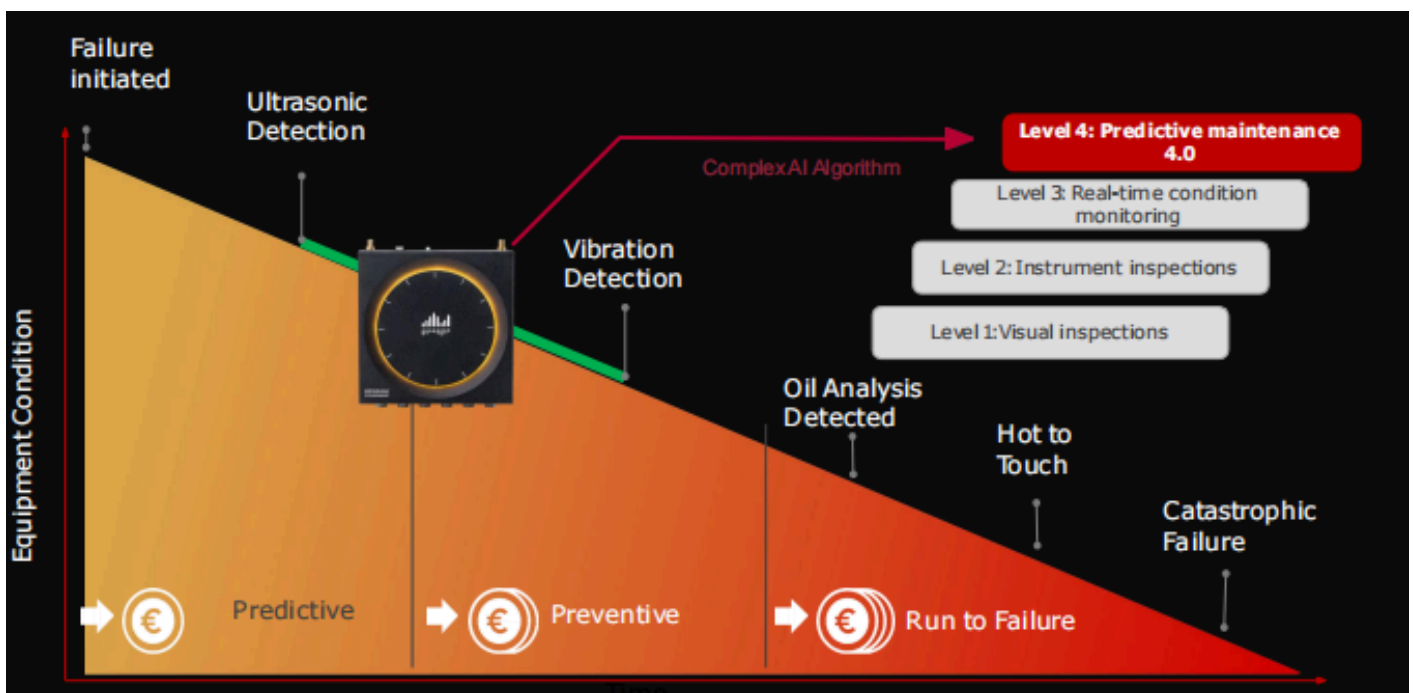
AI BASED APPROACH towards PdM 4.0

PdM 4.0 can leverage AI techniques to conduct comprehensive analytics on extensive multi-source assets, extracting automatic insights from historical failures.

- Self learnt algorithm
- Learning based on past anomalies
- Easy to scale by expanding the acoustics hub
- Easy integration

The complete predictive maintenance (PdM) solution should collaborate seamlessly with digital workflow management (DwM) to establish a holistic maintenance system. PdM collaborates with DwM to forecast machine failures, triggering alerts that initiate workflows to ensure timely action.

Sound Acoustic

Features

PdM	DwM	COMMON
Realtime Anomalies	Realtime Anomalies DwM	Analytics Dashboard
Fine Acoustics Sensors	Asset Management	Data Integration
Cloud / OnPrem IoT Hub	Maintenance Cost Builder	Onsite Support
Traditional Machine Compatibility	System Integration	PdM Architecting
		Clean Room Compatible
		Web Portal

Sound Works AI Pdm 4.0 vs Traditional Pdm

Easy Installation
Does not need to stop the equipment for installation

Zero AI Skills Required
Does not need expert to analyse the data. All is done by AI + ML + HW + SW

Fine Anomaly Detection
Detect fine anomaly at greater speed and accuracy vs vibro diagnostics.

Single Algorithm
Does not requires to rewrite new algorithm to detect different sound source

Great Connectivity
Can works in the most rural area or deep oceans with satellite connectivity support

Full Fledge BI
Data can be dynamically and visually presented in various way in our BI portal

Full PdM + DwM
Great integration and expandability with DwM modules

End – End Coverage
AI PdM 4.0 covers anomaly detection, anomaly respond and analytics