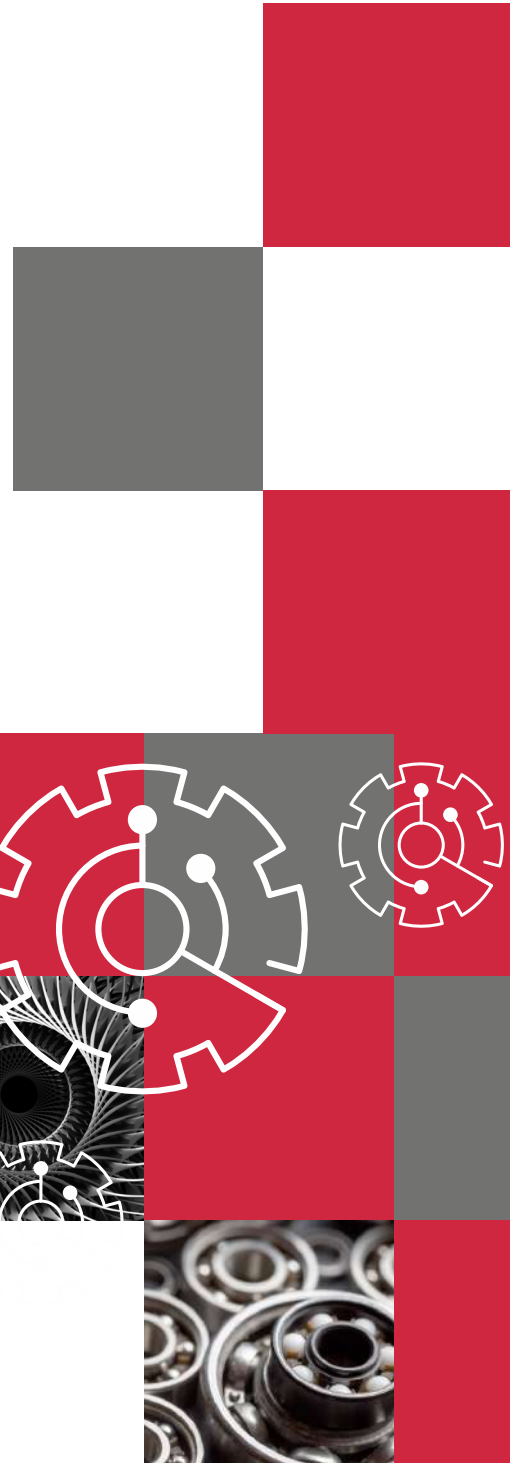


ACCUPREDICT

MACHINES RUN FOREVER



SHAPE YOUR TOMORROW WITH US!

Digitalization brings new technologies. Rapid change is coming for all. Welcome the change. Dare to break away from the past. Partner with **AccuPredict**.

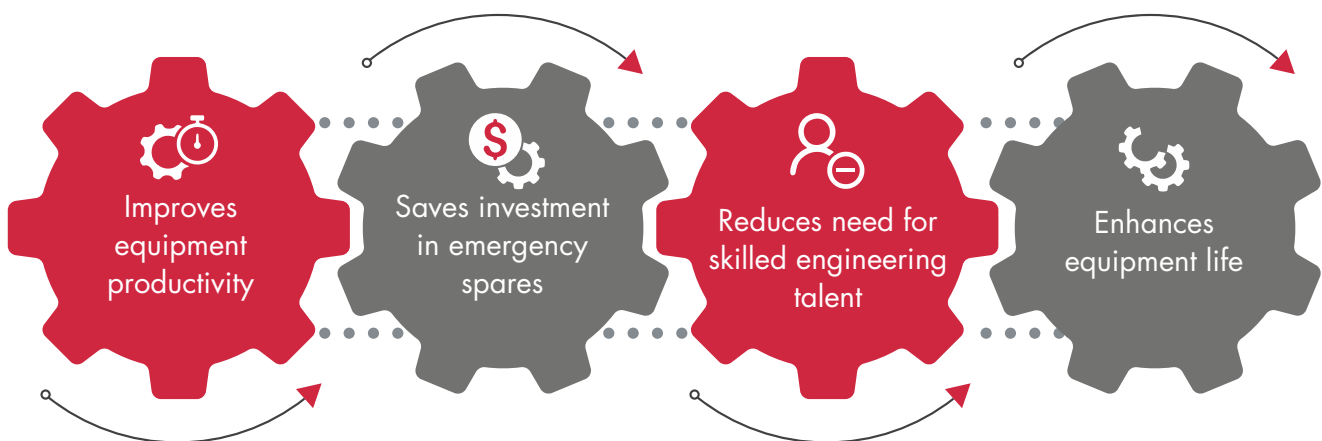
PREDICT THE UNPREDICTABLE!

EVOLUTION OF PLANT MAINTENANCE STRATEGIES

Equipment maintenance has evolved with the times. The goal has always been to maximize throughput without letting costs spiral out of control.

- **Reactive Maintenance:** Equipment were unreliable. Under pressure to maximize output, manufacturers ran machines till failure. This led to missed production schedules, higher cost of spares and lower equipment life.
- **Preventive Maintenance:** As better data on component failure became available, operators acted to replace components based on anticipated failure. This led to costs spiralling out of control due to components being replaced before the end of operating life. Today this remains a strategy appropriate only for mission critical equipment like aircraft engines.
- **Predictive Maintenance:** Technology improvement in electronics led to high quality miniaturized sensors. Physics of machine failure has become well understood. Ubiquitous availability of wireless bandwidth and cloud computing capacity enables remote monitoring 24X7. Machines run forever within operating conditions.

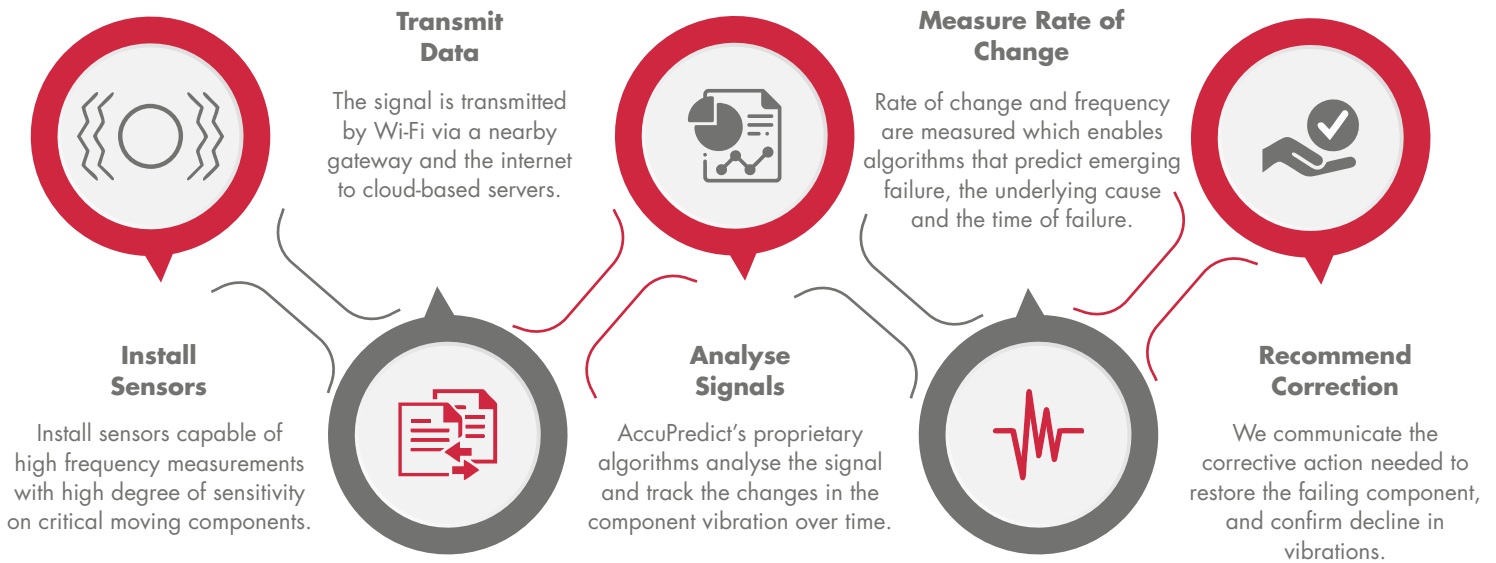
BENEFITS OF PREDICTIVE MAINTENANCE



ACCUPREDICT'S APPROACH TO PREDICTIVE MAINTENANCE

Rapid development in electronics has enabled the creation of miniaturized sensors containing accelerometers that can measure the vibration of critical components at high frequency. Wi-Fi enablement makes it possible to transmit this signal to a remote location.

OUR FIVE STEP PROCESS TO PREDICT FAILURE



ADVANTAGES OF **ACCUPREDICT'S** APPROACH TO PREDICTIVE MAINTENANCE:

- Identifying the failing component early enables AccuPredict to provide customers with ample lead time to carry out corrective action. This reduces the need to maintain emergency spares as well as the engineering staffing for 'what if' emergency responses.
- Equipment running within operating parameters enhances its life by avoiding the stresses they experiences during failure.
- Fundamentals based analysis enables clear identification of failing components and the cause. In contrast, pattern based analysis merely indicates an emerging failure without accurately communicating the failing component and the corrective action needed.
- Predictive Analysis fits in well with customer's ESG strategy. Improved life of the omponents avoids needless replacement. Extending the life of the equipment helps in reducing the environmental footprint.

WE ARE ABSOLUTELY COMMITTED TO MEETING AND EXCEEDING THE EXPECTATIONS OF THE WORLD'S MOST DISCERNING CUSTOMERS.

Here are some of our accomplishments:



Gas Turbine Based Power Station

- Saved 7 days of production.
- Financial benefit worth several Million Rupees.



Commercial Cargo Ship of around 50,000 T Capacity

- Catastrophic failure was avoided on high seas.
- Financial benefit worth several Millions.



Naval Vessel

- Catastrophic failure was avoided on high sea as the Engine could not be run at 1800 RPM due to very high vibrations.





PARTNER WITH US TO EMBARK ON THE
JOURNEY TO OPERATIONS EXCELLENCE!

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