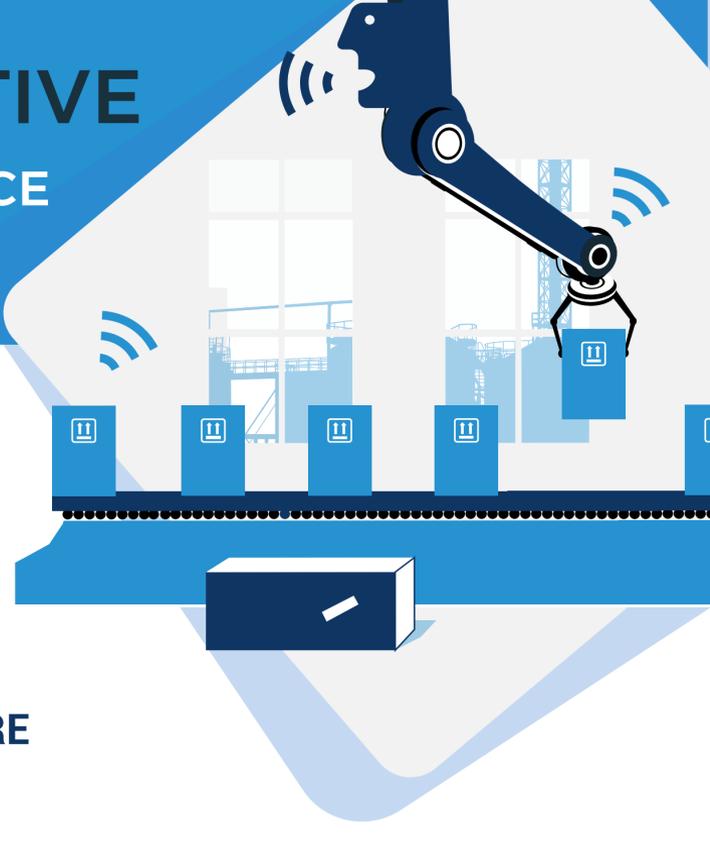


# PREDICTIVE MAINTENANCE



Take proactive measures based on advanced data analytics to predict and avoid

**MACHINE FAILURE**

## LISTEN TO YOUR MACHINES!

### 40%

of preventive maintenance costs are spent on assets with negligible effect on uptime failure.<sup>1</sup>

### 30%

of preventive maintenance activities are carried out too frequently.<sup>1</sup>

### 45%

of all maintenance efforts are ineffective.<sup>2</sup>

Traditional preventive maintenance embraces time-based approach. This consumes unnecessary resources and may actually cause failure by disrupting the equilibrium of stable assets.<sup>3</sup>



### 18%

Only of assets have an age related failure pattern.<sup>3</sup>

### 82%

of asset failures appear random.<sup>3</sup>

### and yet...

### 40%

A full of organizations are not using any form of predictive maintenance.<sup>4</sup>

### 23%

Only of organizations that are using predictive maintenance integrate work order systems.<sup>4</sup>

### 99%

For example, on one oil rig of data collected from sensor-enabled assets went unused.<sup>5</sup>



Monitor and analyze asset health data, both historical and real-time



Intervene at the right time, before assets go down



Prioritize and optimize resources

## By implementing predictive maintenance

Total spend on preventive maintenance can be reduced by up to

### 50%<sup>4</sup>



Total preventive maintenance hours can be reduced by

### 50%-70%<sup>6</sup>



Your machines are talking. **Are you listening?**

### About Wavelabs

With extensive expertise gained from numerous customer implementation and successes, we help our clients unlock the true potential of data, analytics and AI. We handle end-to-end AI solution development - from data mining, cleaning, and labelling, to building, training, and deploying AI models for scale.

Learn more about how you can maximize uptime, visit: <https://insight.wavelabs.ai/predictive-maintenance/>

<sup>1</sup> Source: Oniqua Enterprise Analytics, Reducing the Cost of Preventative Maintenance, <http://www.plant-maintenance.com/articles/PMCostReduction.pdf>

<sup>2</sup> Source: T.A. Cook, Maintenance Efficiency Report 2013, August 2013. [http://uk.tacook.com/fileadmin/files/3\\_Studies/Studies/2013/](http://uk.tacook.com/fileadmin/files/3_Studies/Studies/2013/)

<sup>3</sup> Source: ARC view, Optimize Asset Performance with Industrial IoT and Analytics, August 2015 <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=WH&infotype=SA&htmlfid=WVL12350USEN&attachment=WVL12350USEN.PDF>

<sup>4</sup> Source: Enterprise Asset Management and Field Service Management, ARC Advisory Group, 04/17/2015. <http://www.arcweb.com/market-studies/pages/enterprise-asset-management.aspx>

<sup>5</sup> Source: McKinsey [https://www.mckinsey.de/sites/mck\\_files/files/unlocking\\_the\\_potential\\_of\\_the\\_internet\\_of\\_things\\_full\\_report.pdf](https://www.mckinsey.de/sites/mck_files/files/unlocking_the_potential_of_the_internet_of_things_full_report.pdf)

<sup>6</sup> Source: IDCON Inc., Optimize your Preventive Maintenance, <http://www.idcon.com/resource-library/articles/preventive-maintenance/528-optimize-preventive-maintenance.html>

