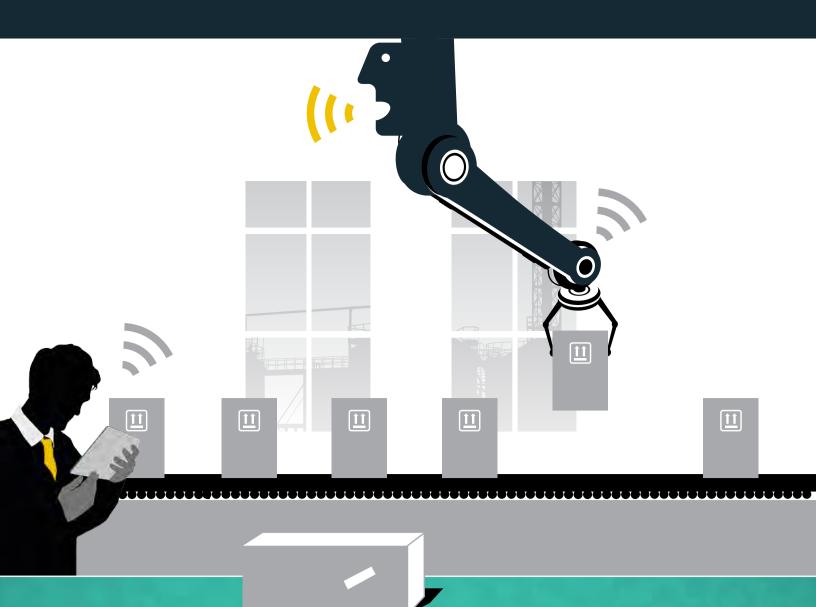
Are your preventive maintenance efforts wrenching away precious resources?

Time to listen to your machines.



in their preventive maintenance efforts, but aren't quite sure how to eliminate it. Listen to your machines!

Most companies are aware of waste

of preventive maintenance

of preventive maintenance costs are spent on

40%

assets with negligible affect on uptime failure<sup>1</sup> activities are carried out too frequently

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

45%



disrupting the equilibrium of stable assets.3

and may actually cause failure by

Only 18%

of assets have an age

related failure pattern<sup>3</sup>

For example, on

of asset failures

appear random<sup>3</sup>

and yet...

A full

of organizations are

not using any form of

predictive maintenance.4

How do you know where to spend your time, money and resources? **Listen to your machines!** 

Only

of organizations that are using predictive maintenance

integrate work order systems.4

one oil rig

of data collected

from sensor-enabled assets went unused. 5

historical and real-time before assets go down



Intervene at

Eliminate

up to

of breakdowns<sup>7</sup>

the right time,



Cut

unplanned

outages by up to

Reduce

maintenance

costs by up to

Monitor and analyze

asset health data, both

scheduled

repairs by up to

Reduce

he results speak for themselves.

Reduce

capital

investment by

Reduce

downtime

by up to

Prioritize and

optimize resources

By implementing CBM best practices:

Total spend on preventive maintenance can be reduced by up to

Your machines are talking.

Are you listening?

50% to 70%

Total preventative

maintenance hours

can be reduced by<sup>8</sup>

Learn more about how CBM can help you maximize uptime, visit: http://ibm.co/asset-mgt

1 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/ T.A.\_Cook\_Maintenance\_Efficiency\_Report\_2013\_En.pdf?tracked=1

<sup>6</sup> Source: Fortune http://fortune.com/2015/07/22/mckinsey-internet-of-things/ Source: G.P. Sullivan, R. Pugh, A.P. Melendez and W.D. Hunt, "Operations & Maintenance Best Practices: A Guide to Achieving Operational Efficiency, Release 3.0," Pacific Northwest National Laboratory, U.S

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<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=WWL12350USEN&attachment=WWL12350USEN.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