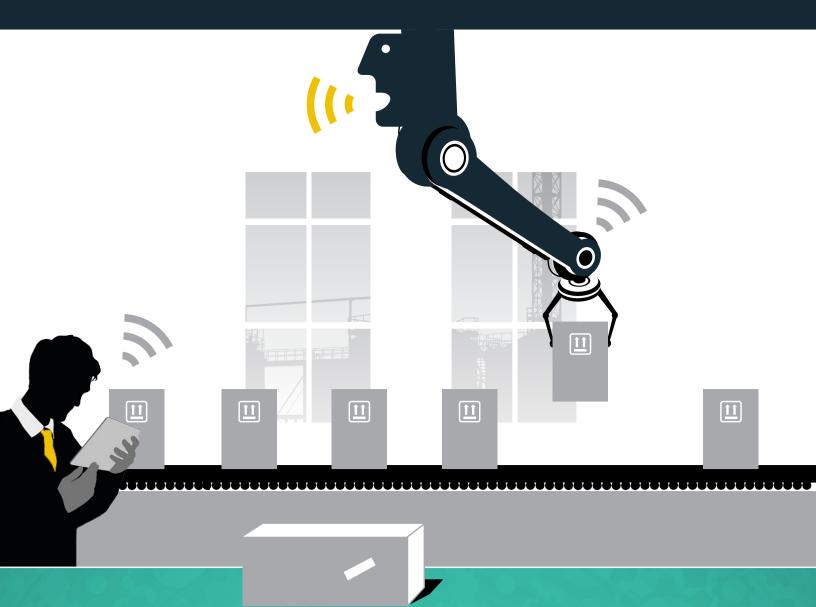
Are your preventive maintenance efforts wrenching away precious resources?

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 assets with negligible

40%

affect on uptime failure<sup>1</sup>

activities are carried out too frequently

efforts are ineffective<sup>2</sup>

45%

of all maintenance



disrupting the equilibrium of stable assets.3

and may actually cause failure by

and yet...

For example, on

of asset failures

appear random<sup>3</sup>

A full

of organizations are

not using any form of

predictive maintenance.4

Only 18%

of assets have an age

related failure pattern<sup>3</sup>

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

Prioritize and

Reduce

downtime

by up to

optimize resources

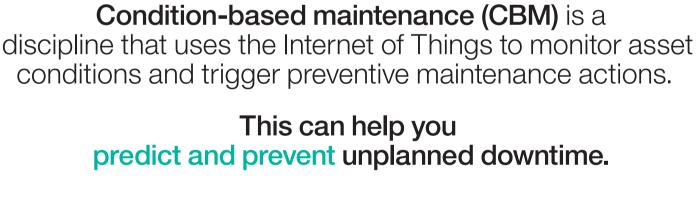
one oil rig

of data collected

from sensor-enabled assets went unused. 5



historical and real-time before assets go down



With CBM you can:

Intervene at

the right time,



Cut

unplanned

outages by up to

Reduce

maintenance

costs by up to

Monitor and analyze

asset health data, both

of breakdowns<sup>7</sup>

he results speak for themselves.

Reduce

scheduled

repairs by up to

Eliminate

up to

Reduce capital investment by

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



<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>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

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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

<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 <sup>6</sup> Source: Fortune http://fortune.com/2015/07/22/mckinsey-internet-of-things/