

SKYGRID

ASSET MANAGEMENT AND INTERNET OF THINGS

PREDICTIVE MAINTENANCE

40%

OF PREVENTIVE
MAINTENANCE
COSTS ARE SPENT
ON ASSETS
WITH LITTLE OR NO
EFFECT ON UPTIME
FAILURE ¹

30%

OF PREVENTIVE
MAINTENANCE
ACTIVITIES ARE
CARRIED OUT TO
FREQUENTLY ¹

45%

OF ALL
MAINTENANCE
IS INEFFECTIVE ²

**TRADITIONAL PREVENTIVE MAINTENANCE
USES A "TIME BASED APPROACH".**

**THIS CONSUMES UNNECESSARY RESOURCES
AND MAY ACTUALLY CAUSE FAILURE BY
DISRUPTING THE EQUILIBRIUM OF STABLE ASSETS.**

ONLY **18%**
OF ASSETS HAVE
AN AGE RELATED
FAILURE CAUSE ³

82%
OF ASSET FAILURE
IS RANDOM ³

But yet ..

40%

OF COMPANIES ARE NOT USING ANY FORM
OF PREDICTIVE MAINTENANCE ⁴

REDUCE MAINTENANCE
COSTS BY UP TO
25%⁶

ELIMINATE UP TO
70%
OF BREAKDOWNS⁷

REDUCE DOWNTIME
BY UP TO
50%⁵

PREDICTIVE MAINTENANCE

CUT UNPLANNED
OUTAGES BY UP TO
50%⁶

REDUCE SCHEDULED
REPAIRS BY UP TO
12%⁷

REDUCE CAPITAL
INVESTMENT BY
3-5%⁵

References

1 Source: Oniqua Enterprise Analytics, Reducing the Cost of Preventative Maintenance,

<http://www.plant-maintenance.com/articles/PMCostReduction.pdf>

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3 Source: ARC view, Optimize Asset Performance with Industrial IoT and Analytics, August 2015 [http://www-](http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=WH&infotype=SA&htmlfid=WWL12350USEN&attachment=WWL12350USEN.PDF)

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4 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>

5 Source: McKinsey

https://www.mckinsey.de/sites/mck_files/files/unlocking_the_potential_of_the_internet_of_things_full_report.pdf

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

7 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. Department of Energy, August 2010.

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