From reactive to intelligent: **Maintenance evolution** for the future

Demand for 100% uptime pervades across all industries—from production systems on factory floors to turbine blades on wind farms. Vital services to consumers also must stay up to speed, including connected vehicles, medical devices, and even household appliances.

Intelligent—predictive, preventative, prescriptive, and

actionable—maintenance addresses these needs, improving operational efficiency and workplace safety, reducing costs, and increasing asset lifespans. With increasingly powerful analytics capabilities, intelligent maintenance will provide an even greater competitive advantage.

evolves from one mode to another.

Understanding each approach is key to success as a company

Maintenance strategies defined



repairing

(Break-Fix)

Wait for failure before

Reactive maintenance

34% of companies still rely on reactive

maintenance.1



Regularly scheduled

inspections to avoid

failures Preventative maintenance reduces

downtime by **25-30**%.

Cost per



Uses IoT and AI to predict failures before

they occur Predictive maintenance can reduce equipment

breakdowns by **60-70**%.³



Performs essential

other models provide and towards actionable maintenance that can operate without human intervention

tasks beyond what

Cost impacts



preventative maintenance⁵ preventative strategies⁶

Intelligent maintenance

Saves 8-12%

compared to

per facility per year.7

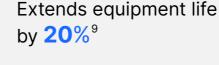
Downtime costs

\$129 million

Key benefits of intelligent maintenance



on⁸ investment



Asset longevity



Downtime reduction

Enable systems to pull Connect the dots and exchange data between machine

Technologies powering intelligent maintenance

information technology IoT sensors

Intelligent data

architectures

Capture real-time equipment data Big data analytics

Analyze patterns for

actionable insights

between operations and



Current adoption

28% of companies

use some sort of either





help diagnose and address maintenance issues

performance for insights that can

and system

Generative AI &

machine learning

Cloud platforms Ensure scalability and centralized monitoring

predictive or intelligent maintenance approach¹¹

Adoption trends



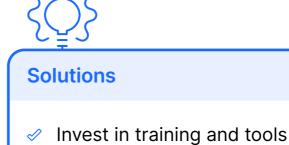
X Data integration issues

X Lack of skilled staff for

advanced analytics

X Cybersecurity concerns

X Complexity of Implementation



Future growth

Predictive and Intelligent

\$23.5 billion by 2025¹²

maintenance market is

expected to reach

Start small and scale gradually Build partnerships with technology

providers to fill skill and technical gaps

Improve workforce knowledge in

learning technologies

data analytics, IoT, and machine

Start implementing intelligent maintenance today. Find out more

1 Plant Engineering, 2023 Maintenance study, 2023

6 U.S. Department of Energy, Operations and Maintenance Best Practices Guide Release 3.0, 2020

Ready to transform your maintenance strategy?

3 Deloitte Analytics Institute, Predictive Maintenance: Taking Proaction to the Next Level?, 2023 4 Database trends and analytics, Intelligent Maintenance: Keeping the connected economy up to speed, 2024

2 Gartner, Top 10 Strategic Technology Trends, 2023

- 5 Plant Engineering, 2023 Maintenance study, 2023
- 8 Gartner, Top 10 Strategic Technology Trends, 2023 9 PwC, The Business Case and Best practices, 2020
- 10 Gartner, Hype Cycle for Customer Service and Support Technologies, 2023
- 11 Statista, Leveraging advanced data analytics and AI, 2023 12 MarketsandMarkets, Predictive Maintenance Market Growth and Trends, 2020

7 Siemens, The True Cost of Downtime - Digital Asset Management, 2022

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