



How to Evolve to a Data-Driven Predictive Maintenance Strategy



Reactive Effects vs. Proactive Effects

Greater Downtime
(Unplanned and Planned)

vs.

Less Downtime

Higher Parts Costs

vs.

Reduced Employee Costs

Increased Costs Due to Reactive Fixes

vs.

Improved Asset Reliability

Growing Employee Costs

vs.

Increased Productivity and Efficiency

60%

of manufacturers plan to **use DATA ANALYTICS to increase operational efficiencies** over the next 12 months.

61%

of manufacturers are **investing in technology partners** as a primary smart manufacturing growth strategy.

Challenges Implementing Predictive Maintenance and IIoT Sensors



Lack of **Time & Resources**



Lack of **Executive Buy-In**



Lack of **Budget**



Lack of **In-House Data Analysis Expertise**



55% Struggling to interpret data and gather insights

Source: Forrester Research



37% Hiring staff with the skills to get insight from data

Source: Forrester Research

END-TO-END IIoT SOLUTION



CONSULTATION & INSTALLATION

Evaluate and implement a tailored plan



24/7 MONITORING

Sensors collect machine data



REAL-TIME ALERTS

Analyzed by condition monitoring experts



PRESCRIPTIVE ACTIONS

On-site maintenance team addresses the issue



MEASURABLE RESULTS

Prevents unplanned downtime and reduces cost

ADDITIONAL SERVICES



Optional maintenance and parts support

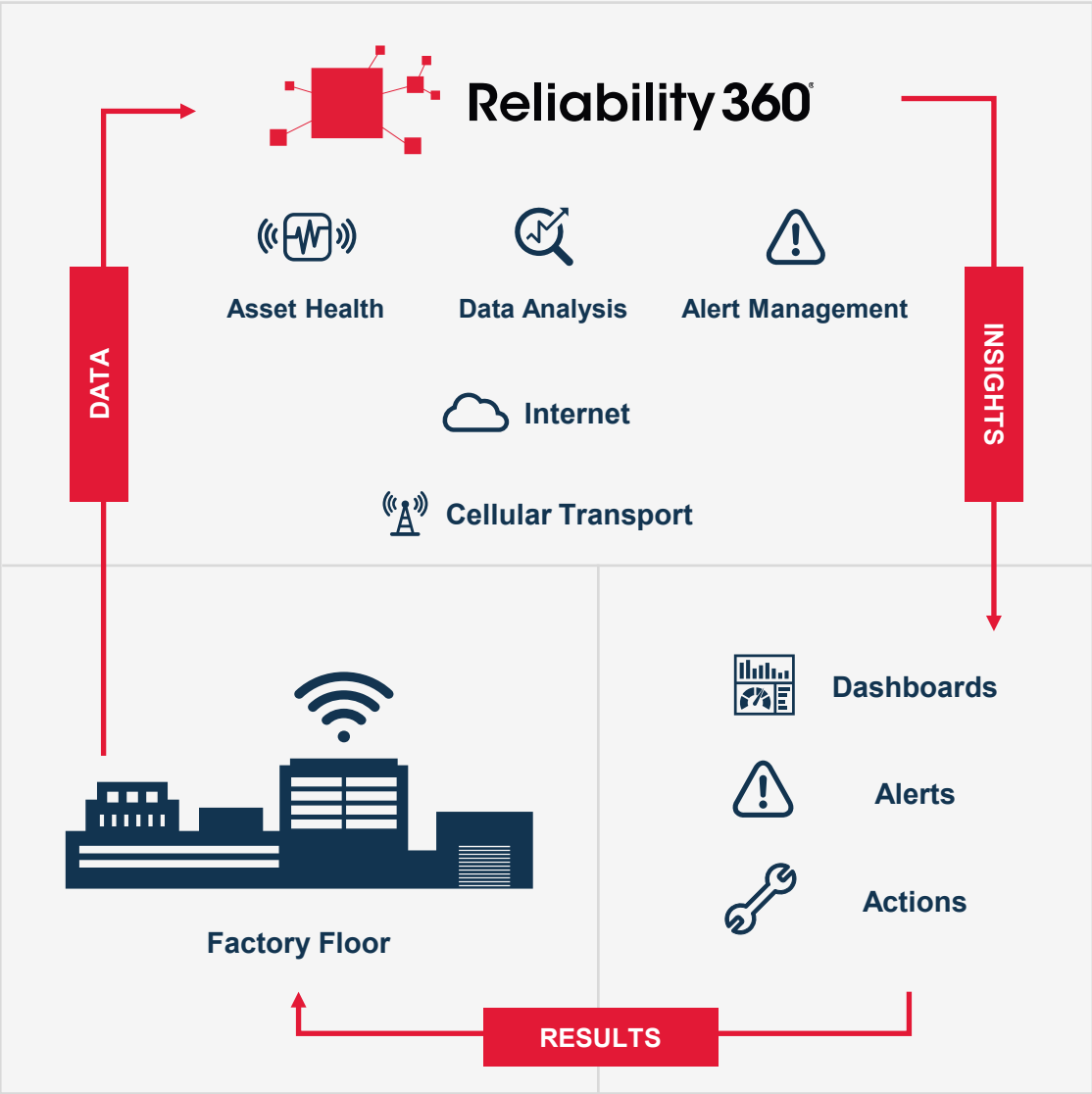
Variety of Sensors

To Monitor Your Equipment



Machine Health Monitoring

How It Works



1.6K Hours of Downtime Avoided in First Six Months

North America's Largest Building Materials Company

BUILDING PRODUCTS MANUFACTURER'S CHALLENGE



Reducing
Unplanned Downtime



Shortage of
Skilled Technicians



Completing PM's &
PdM Implementation

ATS LABOR & TECHNOLOGY SOLUTIONS

- Provided efficient supplemental maintenance at one plant which led to further discussions surrounding ATS solutions at more locations
- Implemented PdM at over 100 plants through R360® Machine Health Monitoring to drive equipment reliability

Equipment Types



Compressors



Motors



Conveyors



Pumps

Sensor Types



Vibration



Current



Flow Rate

6-MONTH RESULTS



1.6K HRS
Avoided
Downtime

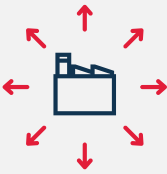


\$2.1M
Avoided
Losses



2x
Return on
Investment

PARTNERSHIP GROWTH – WHAT'S NEXT?



Expand machine health
monitoring across new service
lines and facilities.



Explore storeroom
management with ATS
throughout several key plants.

Thank You

Q & A

