



4 Reasons why your plant needs calibration & asset management software

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Typically implemented to increase operational efficiencies, calibration & asset management software can also increase profitability.

Across industry, manufacturers are challenged with optimizing their return on investment, streamlining processes and increasing efficiencies. A key way to achieve this is via the implementation of calibration and asset management strategies.

The effective monitoring of your assets and calibration instrumentation across your sites requires two significant components. Firstly, the availability of data from your equipment and, secondly, the reliability of that data.

Calibration management software can offer the complete system solution to many of a site's maintenance, process efficiency and compliance concerns. This article will cover the main reasons why site and engineering managers are increasingly turning to software solutions to manage their instrumentation, data analysis and maintenance actions.

As we begin to unpick this challenge, we recognize the obstacle we face is not how to store our data, but rather the **accessibility, optimization** and **utilization** of data. This refers to whichever process is used to interpret and pass relevant calibration and asset information to the applicable person at the appropriate time. The effectiveness of which can be measured in relation to reductions in unplanned downtime, increases in efficiencies and cost savings.

Current industry standards and processes

For those not currently using calibration and asset management software, in some cases alternative processes can be used to fulfill certain aspects of the same role. Outside of efficiency concerns, these other processes often come with a number of unforeseen implications, with some of the most common examples below:

Paper-based systems

Typically, this process involves engineers manually logging calibration results. While relying on paper checklists sounds like an inexpensive measure, in practice it's highly labor-intensive, time-consuming and prone to inaccuracies. Accordingly, a manual, paper-based system, generates a lot of paper and makes final calibration data difficult to aggregate, access and analyze.

Spreadsheets

Although an improvement on paper-based systems, spreadsheet software still requires manual data entry, meaning human error remains a key concern. In addition, the data entry process takes up valuable time. Using this method inhibits the automation of calibration scheduling and affords limited data analysis.

DCS management system

Some plant managers do their best to stretch the capabilities of their DCS to manage plant assets. While these systems conform to certain reliability and security standards, their intended use does not directly relate to calibration and asset management. The implication of such limitations in terms of the functionality of DCS management systems results in an obvious consequence – the absence of scheduling and reporting features.

Hiring an outside service

Outsourcing is often a useful 'stop-gap' and provides a quick resolution in the early stages of a plant's operational cycle. However, as a long-term solution this mode of management can prove costly and may make a plant reliant on an external service with availability concerns at critical times.

While any of these methods can be used across a plant, they do not offer a complete system solution. The ideal solution is one which positively impacts both asset management and asset optimization.

This being said, what really are the core reasons a site needs a calibration management software solution?

4 reasons why a plant needs calibration & asset management software

1. To be fully compliant and audit ready

No matter the size of your installed base of instrumentation, calibration can pose a challenge. A software solution that seamlessly integrates with existing calibration equipment can provide automatic task downloads and direct uploads of results, removing the need for manual workarounds. This in turn delivers simple control over calibration and maintenance workflow and data, as well as automated worksheets and insights into performance management, ensuring easily accessed, audit-ready data.

2. To take a predictive approach to plant maintenance

Comprehensive asset analysis, such as data derived from a historical trending module, allows a device's performance to be monitored over time. This feature is a key tool in improving efficiency and maintenance, helping to plan preventative actions, choosing the most cost-effective and reliable equipment, extending calibration intervals and optimizing processes.

3. To have the flexibility to grow with operations

The ideal software solution is one capable of growing with a plant, offering multi-license packages that can expand alongside operations. As the number of technicians and equipment increases, so can the licensing. As the number of plants grows, plant managers will have the ability to share insights as software provides a common 'cross-plant' language with consistent reporting and verifiable compliance. In this context, the ability to install software directly onto a company server is of additional benefit, as is a range of supported installation options if required. As a further benefit, there are significantly lower investment costs and minimal IT requirement costs in terms of server support of server support, upgrade management and data backup.

4. To increase operational efficiencies

Plants will become more efficient as managers gain the ability to predict maintenance and act proactively, before unexpected repairs impact operations. Unnecessary paperwork and filing will be minimized, and record keeping for audits and compliance will improve. The software undertakes a variety of tasks on behalf of the plant manager; overseeing calibration schedules, generating certificates and applying historical trend analysis to monitor devices and extend calibration schedules.



So, when choosing the right calibration & asset management software for your operation, what key challenges should your preferred software solution address?

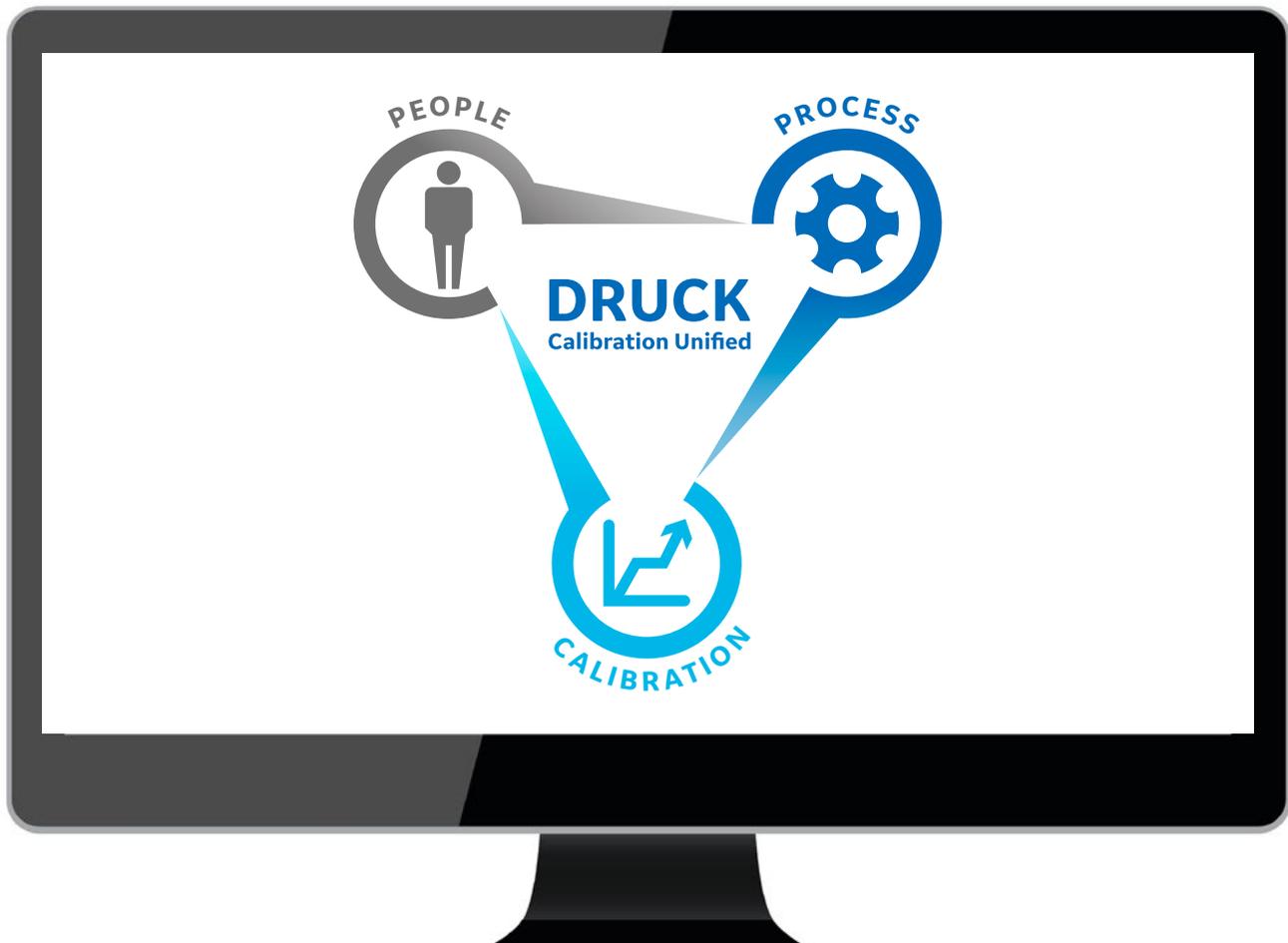
Calibration Software Checklist

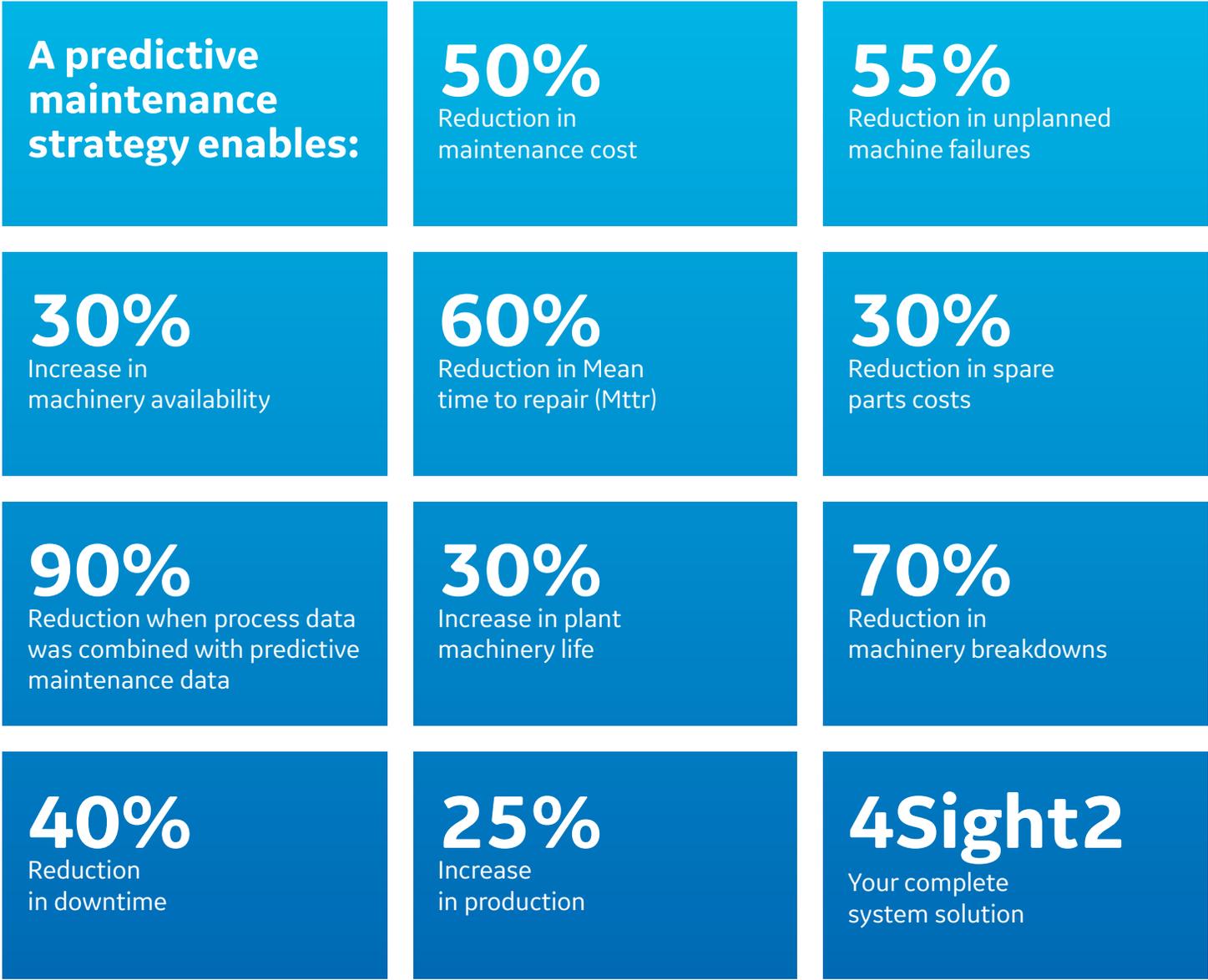
Easy to use and accessible	Visibility of your assets and resources
Scalable	Compliant, audit-ready, real time management
Cost effective	Integration with existing calibration equipment
Purpose-built	Smart asset management
Custom installation support available	Historical trend analysis
Accessible from mobile devices	Predictive maintenance tools

The next-generation solution for calibration and asset management

4Sight2, from Druck, makes calibration management easy to use, cost effective and scalable. Purpose-built with custom installation support available, 4Sight2 is designed to deliver actionable intelligence and transformative insights. Equally effective for single use or global multi-site operations, this bespoke software solution is designed to empower your organization to operate simply and securely, connecting people to instruments, data, and enhanced analytics.

4Sight2's historical trending module allows an asset's performance to be monitored over time. This powerful feature is a key tool in improving efficiency, offering a predictive maintenance strategy for your asset base.





Conclusion

A great majority (77-94%) of assets within a plant experience a variety of unexpected problems throughout their life cycle underpinning the need for a solution. Calibration management software enhances the visibility of these assets along with the data they provide. The complete software solution is one which ultimately helps you plan resources that impact effective maintenance, process efficiency and regulatory compliance, keeping your plant running efficiently.



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