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Three ways industrial organizations boost returns on industrial data

Your company generates volumes of data during normal operations – but are you using it effectively? Suboptimal data management practices can limit your ability to identify operational efficiencies. Used effectively, operations data can enhance productivity, drive faster decision-making, and increase organizational success. Make sure you have the right infrastructure in place to maximize your data's value.

How industrial organizations boost returns on industrial data

While most companies digitize their data, that alone doesn't guarantee efficiency. One company's daily operations report involved dozens of stitched-together spreadsheets, hidden worksheets, programming modules, and over a hundred named ranges. Is it any wonder the company struggled to take real-time action? Savvy operational leaders that use their data effectively understand three key principles.



Investing in flexible, edge-to-cloud data management is essential for success

Competitive industrial companies invest in robust data management solutions that provide data governance, data quality, and decision-making capabilities. This means eliminating data errors, streamlining redundant processes, and addressing incomplete information.

Data management technology enables real-time data processing, advanced analytics, and secure data storage across various locations. By investing in flexible data management tools and infrastructure, companies can significantly reduce risks related to compliance, security, and data loss – resulting in significant business improvements.

Success story: Deschutes Brewery

At Deschutes Brewery, the seventh-largest craft brewery in the United States, operations managers recognized the value of a flexible data foundation and achieved the following remarkable results:

- Saved 72 hours of production time for each fermenter
- Avoided \$8 million in capital expenses
- Increased brewery capacity
- Made multiple improvements to processes and product quality

Deschutes committed to a solution that helped it combine data, context, events, and machine learning to feed visualizations of predictive analytics they could act on. Consider the transformative impact a powerful data infrastructure could have on your organization's growth and industry standing.

[Read the success story](#)



Seeing what's really happening with real-time visualization

As industrial organizations grow, they strategically implement a variety of control and operations systems tailored for specific functions. Additional machinery, equipment, sensors, and other assets each generate their own data.

To overcome the challenges of using this scattered data and the difficulty of analyzing it, innovative companies establish a centralized, reliable data source that supports decision-making. It is crucial that this single source of truth scales with the growing data volumes necessary for cutting-edge machine learning and artificial intelligence, which enable better anomaly detection and predictive maintenance.

Building comprehensive dashboards provides clear insight into an organization's operations. Staff can be empowered with user-specific visualizations offering real-time tailored information for various roles and needs. This approach helps streamline decision-making and identify areas for improvement.

Success story: Energy Queensland

Energy Queensland generated a lot of data, but its engineers struggled to turn it into actionable insights. Unsatisfied with the status quo, pioneering engineers at the Australian power distributor improved visibility by creating customized dashboards to address unique needs, leading to:

- Increased power flow capacity by 40%
- Improved asset utilization by 20%
- Enhanced data accuracy and other improvements

Energy Queensland's engineers knew data alone did not equal information. They chose a data management system with an integrated visualization capability. What if you eliminated your obstacles to full visibility and gave your team a better understanding of operations? How much further could you optimize business performance?

[Read the success story](#)



Making the needs of data users and decision-makers a key focus

Delivering relevant data to plant engineers, enterprise analysts, remote operators, and applications in real time has become essential to preventing outages, maintaining product quality, and maximizing profitability. Also, with experienced subject-matter experts retiring, making it easier for new employees to see and use data can directly improve productivity.

In the drive toward a connected industrial economy, the significance of operations data extends beyond internal stakeholders to include customers, suppliers, consultants, regulators, and other partners who rely on it for informed decision-making. Companies should adapt their data management practices to effectively serve the diverse needs of their staff and partners.

Securely sharing data and visualizations to facilitate collaboration across disciplines and skill sets uncovers previously untapped value. Data, as a unique resource, increases in value the more people use it.

Success story: Pfizer

Pfizer aggregated data from critical, but separate, systems and then added contextualization to make the data more meaningful to diverse stakeholders. As a result, Pfizer has experienced remarkable improvements, achieving:

- 50% faster completion of compliance and building management system reporting
- 90% reduction in alarm resolution time
- 30% decrease in root cause analysis time

Once the data solution started doing more, subject matter experts at Pfizer saved five to ten hours per week, freeing up their valuable time to concentrate on more important tasks. If you similarly empowered your company's experts, how significant would your returns be?

[Read the success story](#)

Advance operations and empower your teams with a dynamic data strategy

Maximizing the value of your operations data doesn't have to be difficult. By implementing a flexible data foundation, eliminating obstacles to visibility, and supporting diverse groups of data users, companies can make it easier to achieve operational excellence, reduce operating expenses, and increase productivity.

Don't overlook the power of an effective data management solution. Invest in the right foundation and unlock the true potential of your data.

Learn more about the keys to effective industrial data management from the Verdantix Operational Excellence report entitled ["Smart Innovators: Industrial Data Management Solutions."](#)



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