



Operational Controls and Instrumentation: "How Do You Know?"

SUMMARY

The financial industry is in a state of constant change and with highly complex operations, where organizations are increasingly asking themselves a fundamental question: "How do we know?" This question is at the heart of operational awareness, data integrity, and decision-making. This article explores the imperative role of operational controls and instrumentation, illustrating the transformative power of advanced visualizations and dashboards compared to traditional reconciliation reports.

Additionally, we make the case for embracing advanced analytics and data visualization to improve performance, ensure accountability, and drive strategic success. Further, in the next-generation operating model with cloud-based operations, seamless data sharing, and agentic AI enabling process flows and data pipelines, the need for instrumentation is all the more imperative to understanding and controlling highly sophisticated and complex investment operations.

THE "HOW DO YOU KNOW?" FRAMEWORK

"How do you know?" is more than a question—it is a guiding principle for operational assurance. Effective operational controls enable organizations to answer questions such as:

- How do we know performance metrics are on track?
- How do we know where bottlenecks or failures are occurring?
- How do we know which risks to mitigate proactively?

Without clear visibility into these questions, organizations remain vulnerable to inefficiencies, errors, and missed opportunities.

THE LIMITATIONS OF TRADITIONAL RECONCILIATION REPORTS

For decades, businesses have relied on static, text-heavy reconciliation reports to gain operational insights. While such reports provide critical snapshots of information, they have significant limitations:

- 1. Lag in Information:** Reconciliation reports are typically retrospective, capturing data after the fact. This delays the response to operational issues. How do you run a business using a 'rear-view' mirror?
- 2. Limited Insights:** Static reports lack interactive elements, making it difficult to drill into granular data or visualize trends. One question leads to another, and another. Static reports are ineffective in meeting the operations professionals' need for diverse and complex answers.
- 3. Fragmented View:** Traditional reports often present data in silos, making it challenging to piece together a comprehensive view of performance. Searching across hundreds of reports and multiple portals for answers to time-critical operational issues is not scalable and unsustainable.
- 4. Resource-Intensive:** Generating, distributing, and interpreting reports can be time-consuming and prone to human error. Data-driven analytics generated within and by the operational ecosystem without human intervention is critical to scaling operational instrumentation.

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THE LIMITATIONS OF TRADITIONAL RECONCILIATION REPORTS (continued)

These limitations hinder decision-makers' ability to respond to changes swiftly and optimize operations in real time.

THE POWER OF DASHBOARDS AND ADVANCED VISUALIZATIONS

Modern KPI (Key Performance Indicator) dashboards [address these challenges](#) by offering dynamic, intuitive, and interactive views of critical data. Advanced dashboards answer the "How do you know?" question with visual clarity, timely insights, and actionable information.

Here's how:

1. Real-Time Visibility and Proactive Monitoring

Dashboards provide live updates, allowing stakeholders to monitor operations continuously. For instance, a financial services firm can track settlement times, failed trades, and regulatory compliance metrics in real time, empowering decision-makers to address discrepancies immediately.

2. Enhanced Data Comprehension

By visualizing performance data through charts, heat maps, and scorecards, dashboards enable users to quickly identify trends, outliers, and performance gaps. Research shows that visual representations improve cognitive processing, allowing users to grasp insights more efficiently than with text-based data that is serially processed by our brains.

3. Centralized Data Access

Instead of relying on disparate reports, dashboards consolidate data from various sources into a single, comprehensive view. This eliminates the need to cross-reference multiple documents, fostering a unified understanding of organizational performance.

4. Interactive Drill-Downs

Dashboards provide interactive features that allow users to explore data at varying levels of granularity. For example, if a dashboard highlights an anomaly in operational costs, users can drill down to specific departments, timeframes, or transactions to investigate the root cause.

5. Automated Updates and Alerts

Automation reduces the risk of outdated or incorrect data. Dashboards that integrate with APIs and internal databases can pull data continuously, ensuring up-to-date performance insights. Alerts can be configured to notify stakeholders when KPIs cross predefined thresholds, prompting immediate action.

THE STRATEGIC BENEFITS OF OPERATIONAL DASHBOARDS

The implementation of operational dashboards delivers measurable benefits across various domains:

1. Improved Decision-Making

Dashboards support data-driven decisions by providing timely and accurate insights. Leaders can make informed choices based on current performance metrics rather than relying on retrospective reports.

2. Increased Efficiency and Accountability

By visualizing KPIs aligned with strategic objectives, dashboards make it easier to track progress and identify areas for improvement. This fosters a culture of accountability, where teams are empowered to take ownership of their performance.

3. Enhanced Collaboration and Transparency

Dashboards facilitate cross-functional collaboration by providing shared visibility into operational performance. Teams across departments can align their efforts and contribute to collective goals.

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THE STRATEGIC BENEFITS OF OPERATIONAL DASHBOARDS (continued)

4. Risk Mitigation

Proactive alerts and real-time insights help organizations identify and address potential risks before they escalate, minimizing operational disruptions and financial losses.

IMPLEMENTING EFFECTIVE DASHBOARDS: KEY CONSIDERATIONS

To maximize the impact of operational dashboards, organizations must [approach implementation thoughtfully](#):

1. Define Relevant KPIs

It is essential to select KPIs that align with organizational objectives and stakeholder priorities. Involving subject matter experts ensures that the chosen metrics are both meaningful and actionable.

2. Ensure Data Integrity and Integration

Dashboards must be built on a foundation of reliable data. Integrating data sources such as MDM, CRM, ERP, and external APIs, combined with robust data cleansing processes, ensures that visualizations reflect accurate and comprehensive information.

3. Design for User Experience

User-friendly interfaces with intuitive navigation enhance the dashboard's adoption and usability. Features like customizable views, filters, and responsive design improve the user experience and accessibility.

4. Incorporate Drill-Down and Interactive Features

Dashboards should enable users to explore data beyond surface-level metrics. Drill-down capabilities, trend analysis, and anomaly detection enhance the dashboard's analytical power.

5. Prioritize Ongoing Maintenance and Updates

As business priorities evolve, dashboards must be updated to reflect new KPIs, data sources, and user needs. Continuous maintenance ensures that dashboards remain relevant and aligned with organizational goals.

CONCLUSION

The shift from static reports to interactive dashboards represents a fundamental transformation in operational controls and instrumentation. By leveraging advanced visualizations, organizations can answer the **"How do you know?"** question with confidence and precision. Dashboards not only provide real-time insights but also foster a culture of data-driven decision-making, collaboration, and accountability.

As organizations navigate increasingly complex landscapes, the ability to monitor, analyze, and act on data in real time is a strategic necessity. Operational dashboards empower businesses to move beyond reactive reporting toward proactive performance management, ensuring sustained success in an ever-changing world.

In the words of [an operational leader](#): "It's not enough to have data; you must make it work for you." The path to operational excellence starts with asking the right questions and building the tools to answer them. Advanced dashboards are those tools—and the answer to the crucial question, "How do you know?"

Brian Buzzelli is an accomplished leader in financial data management with more than 29 years of experience in the financial services and asset management industry. He has a deep background in data strategy, quality, architecture, governance, and data management operations. Brian has championed data quality and pre-use data validation, allowing investment and operation professionals to focus on their core responsibilities. His innovative approach drives a data-driven culture, treating data as an asset that involves leveraging manufacturing techniques to engineer a robust data quality control framework, ensuring accuracy and precision.

Jonathan Boersma, CFA, oversees Meradia's investment performance regulatory offering, including compliance and consulting services for firms adopting the Global Investment Performance Standards (GIPS®). He leverages 28 years of financial services experience to guide clients through the complex transformations and operational preparations required for adopting industry and regulatory frameworks. Through his deep understanding of the GIPS standards, Jonathan blends strategic planning with industry best practices to ensure Meradia's clients achieve investment performance operations efficiencies.

Meradia
119 North High Street
West Chester, PA 19380
Phone: 610-738-7787

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