

# Budgetary Control and Operational Efficiency in Regional Public Organizations

Raden Roro Fatma Sari, SE., MSI (1) and Ricky Agusiady (2) (1) Universitas Sangga Buana YPKP | (2) Universitas Sangga Buana Bandung

sarie801@yahoo.com ; ricky.agusiady@usbypkp.ac.id

## Abstract

This integrative evidence review examines budgetary control and operational efficiency in regional public organizations by asking how budgetary control is connected to operational efficiency and which conditions determine whether that connection becomes operationally meaningful. The article synthesizes peer-reviewed and institutional literature relevant to reporting, assurance, control, and financial decision systems, emphasizing mechanisms, boundary conditions, and measurement choices rather than a universal average effect. Evidence associated with Knudsen, 2020 and Dechow et al., 2010 is read with the wider source set to distinguish formal adoption from effective use, short-term response from durable capability, and observed association from causal interpretation. The synthesis identifies complementary roles for exception detection and escalation, system integration, and governance or coordination routines. No survey, interview, experiment, proprietary dataset, or regression estimate is represented as having been collected for this conceptual review.

Keywords: budgetary, control, operational, efficiency, regional, public, organizations, accounting, integrative review

Budgetary Control and Operational Efficiency in Regional Public Organizations addresses a contemporary question in reporting, assurance, control, and financial decision systems. The title implies a relationship between budgetary control and operational efficiency, but the direction and magnitude of that relationship cannot be assumed from terminology alone. This review identifies mechanisms that plausibly connect the two, conditions that make those mechanisms stronger or weaker, and measurements needed to evaluate them without overstating evidence. Context, timing, implementation quality, and decision rights are therefore treated as analytical variables.

## 1. Introduction

The introduction defines the decision problem and explains why a conditional interpretation is preferable to a deterministic one.

For Budgetary Control and Operational Efficiency in Regional Public Organizations, the relevant unit of analysis is the decision process linking budgetary control with operational efficiency. Technology-enabled traceability provides one plausible channel, but its effect depends on system integration, data quality, and the time available for adjustment. The literature represented by Committee of Sponsoring Organizations of the Treadway Commission, 2013 and Kraus et al., 2022 suggests that average associations can conceal important differences in starting conditions and execution quality. A stronger assessment therefore

combines a leading indicator of process integrity with a lagging indicator of compliance quality.

The synthesis treats budgetary control as an input into a wider system, not as an automatic cause of operational efficiency. In reporting, assurance, control, and financial decision systems, data provenance and reconciliation changes what actors can observe, prioritize, or correct, while regulatory clarity shapes how consistently that change is translated into practice. This interpretation is consistent with IFRS Foundation, 2023 and OECD, 2023 and is especially relevant in regional public organizations. The practical implication is to specify the expected sequence of change before choosing metrics.

For Budgetary Control and Operational Efficiency in Regional Public Organizations, the relevant unit of analysis is the decision process linking budgetary control with operational efficiency. Segregation of duties and authorization provides one plausible channel, but its effect depends on organizational scale, regulatory clarity, and the time available for adjustment. A stronger assessment therefore combines a leading indicator of process integrity with a lagging indicator of reporting timeliness.

For Budgetary Control and Operational Efficiency in Regional Public Organizations, the relevant unit of analysis is the decision process linking budgetary control with operational efficiency. Measurement discipline and disclosure consistency provides one plausible channel, but its effect depends on data quality, data quality, and the time available for adjustment. The literature represented by Verhoef et al., 2021 and Dechow et al., 2010 suggests that average associations can conceal important differences in starting conditions and execution quality. A stronger assessment therefore combines a leading indicator of process integrity with a lagging indicator of auditability.

A recurring issue in research on Budgetary Control and Operational Efficiency in Regional Public Organizations is the danger of reading correlation as a universal performance rule. Budgetary Control may be associated with operational efficiency, yet the relationship can be delayed, mediated, or offset when staff capability is weak. The mechanism examined here is exception detection and escalation, which connects the focal practice to changes in control effectiveness. Sources such as Kraus et al., 2022 and Committee of Sponsoring Organizations of the Treadway Commission, 2013 are therefore interpreted for mechanism and boundary conditions rather than combined into a single pooled effect.

## **2. Conceptual and Literature Review**

The literature review organizes evidence around mechanisms, complementary capabilities, and boundary conditions.

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### 3. Research Method

This manuscript is a conceptual narrative draft revised through a chronological source filter. Bibliography entries dated after 31 December 2023 and sentences explicitly invoking those years have been excluded. Original pre-cutoff references have been retained, with a limited historical source context added separately. This revision does not constitute a new systematic search, a meta-analysis, or a reproducible coding exercise. The historical source cutoff is stated here so that the scope of the discussion is explicit.

The remaining discussion proposes mechanisms and research questions. It does not supply new observations, estimated coefficients, or verified causal effects. Earlier reference entries retained from the source draft are retained as supplied and should be assessed against the original publications when interpreting specific claims. Sources added during this revision support only the historical context described in the dedicated source-context section.

#### 4. Evidence Synthesis: Mechanisms

The first synthesis layer asks how the proposed relationship works in practice and which intermediate processes can be observed before the final outcome changes.

From a governance perspective, Budgetary Control and Operational Efficiency in Regional Public Organizations requires clarity about who owns the intervention, who validates the information it generates, and who can act when performance deviates from expectation. Measurement discipline and disclosure consistency is most credible when supported by system integration and system integration. The article therefore emphasizes traceable assumptions, explicit decision rights, and periodic review.

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pooled effect.

## 5. Evidence Synthesis: Boundary Conditions

The second synthesis layer examines why results may differ across settings even when the focal intervention appears similar.

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A mechanism-based reading avoids assuming that identical labels produce identical outcomes. In Budgetary Control and Operational Efficiency in Regional Public Organizations, budgetary control can influence operational efficiency through governance oversight and professional judgment. The pathway is conditional on regulatory clarity and data quality; these factors determine whether information becomes an operational response or remains a formal feature with limited practical effect. Evidence associated with OECD, 2023 and OECD, 2023 supports treating implementation conditions as part of the explanation rather than as background noise. For finance leaders, auditors, owners, regulators, and governance bodies, measurement should capture both the intervention and the intermediate process expected to produce decision usefulness.

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## 6. Integrated Discussion

The integrated discussion reconciles different findings by distinguishing mechanism, context, timing, and measurement.

From a governance perspective, Budgetary Control and Operational Efficiency in Regional Public Organizations requires clarity about who owns the intervention, who validates the information it generates, and

who can act when performance deviates from expectation. Governance oversight and professional judgment is most credible when supported by system integration and organizational scale. The reviewed literature (OECD, 2023; Knudsen, 2020) indicates that these complements often explain why apparently similar settings report different outcomes. The article therefore emphasizes traceable assumptions, explicit decision rights, and periodic review.

Observed performance becomes interpretable only when implementation quality is separated from nominal adoption. In Budgetary Control and Operational Efficiency in Regional Public Organizations, budgetary control can influence operational efficiency through technology-enabled traceability. The pathway is conditional on regulatory clarity and staff capability; these factors determine whether information becomes an operational response or remains a formal feature with limited practical effect. Evidence associated with Knudsen, 2020 and Dechow et al., 2010 supports treating implementation conditions as part of the explanation rather than as background noise. For finance leaders, auditors, owners, regulators, and governance bodies, measurement should capture both the intervention and the intermediate process expected to produce compliance quality.

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## 7. Measurement and Decision Framework

A decision framework links leading process indicators, outcome indicators, and explicit assumptions about causality.

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## 8. Practical Implications and Research Agenda

The practical implications translate the evidence into staged actions while preserving the limits of a literature-based design.

The synthesis treats budgetary control as an input into a wider system, not as an automatic cause of operational efficiency. In reporting, assurance, control, and financial decision systems, data provenance and reconciliation changes what actors can observe, prioritize, or correct, while system integration shapes how consistently that change is translated into practice. The practical implication is to specify the expected sequence of change before choosing metrics.

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## 9. Conclusion

The conclusion summarizes the evidence logic and priorities for author verification and future empirical work.

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## Historical source context and interpretation

The mechanism discussion is conceptual and must be read alongside the pre-cutoff works listed in References. Removing later sources does not establish a new empirical finding, a pooled effect or comprehensive coverage of the literature. Organization-specific claims require additional evidence before publication.

## References

Knudsen, D.-R. (2020). Elusive boundaries, power relations, and knowledge production: A systematic review of the literature on digitalization in accounting. *International Journal of Accounting Information Systems*, 36, 100441. <https://doi.org/10.1016/j.accinf.2019.100441>

Dechow, P., Ge, W., & Schrand, C. (2010). Understanding earnings quality: A review of the proxies, their determinants and their consequences. *Journal of Accounting and Economics*, 50(2-3), 344-401. <https://doi.org/10.1016/j.jacceco.2010.09.001>

Committee of Sponsoring Organizations of the Treadway Commission. (2013). *Internal Control-Integrated Framework*. Durham, NC: COSO.

IFRS Foundation. (2023). *IFRS S1 General Requirements for Disclosure of Sustainability-related Financial Information*. London: IFRS Foundation.

Verhoef, P. C., Broekhuizen, T., Bart, Y., Bhattacharya, A., Dong, J. Q., Fabian, N., & Haenlein, M. (2021). Digital transformation: A multidisciplinary reflection and research agenda. *Journal of Business Research*, 122, 889-901. <https://doi.org/10.1016/j.jbusres.2019.09.022>

Kraus, S., Durst, S., Ferreira, J. J., Veiga, P., Kailer, N., & Weinmann, A. (2022). Digital transformation in business and management research: An overview of the current status quo. *International Journal of Information Management*, 63, 102466. <https://doi.org/10.1016/j.ijinfomgt.2021.102466>

OECD. (2023). *OECD SME and Entrepreneurship Outlook 2023*. OECD Publishing. <https://doi.org/10.1787/342b8564-en>