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Elevating Financial Audit Practices in the Airline Industry: A KPI-Driven Framework for Enhanced Oversight and Performance

SeyyedAbdolhoojat Moghadasnian

Tarbiat Modares University

S14110213@Gmail.com

Abbas Amiri

Kar Higher Education Institute of Khorramdarreh

Abbas54Amiri@Gmail.com

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Abstract

This study explores the integration of Key Performance Indicators (KPIs) within the financial audit functions of the airline industry, aiming to enhance audit effectiveness, efficiency, risk management, and compliance. Through a mixed-methods research approach, combining qualitative insights from Financial Audit Directors (FADs) with quantitative analysis of audit outcomes, the research develops a comprehensive framework of KPIs tailored for the airline sector. Findings underscore the transformative potential of a KPI-driven approach in streamlining audit processes, improving risk management practices, ensuring stringent compliance, and aligning audit activities with broader organizational objectives. The study contributes to the existing body of knowledge by offering a novel perspective on the strategic integration of performance measurement tools in auditing and provides actionable

recommendations for FADs to implement and leverage KPIs effectively. This research not only addresses a notable gap in the literature regarding performance measurement in financial auditing but also presents a strategic roadmap for enhancing the strategic value and impact of audit functions within the dynamic landscape of the airline industry. The implications of this study are significant for practitioners, offering insights into adopting a strategic, KPI-driven approach to elevate the role of financial audits in supporting organizational success and resilience.

Keywords: Financial Auditing, Key Performance Indicators, Airline Industry, Risk Management, Compliance.

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Introduction

Background

The airline industry, defined by its competitive margins, fluctuating demand, and hefty capital investments, regards financial audits as crucial for ensuring transparency, accountability, and compliance. These audits transcend mere regulatory adherence, encompassing comprehensive evaluations of financial health, risk management, and operational efficacy—cornerstones for maintaining stakeholder confidence and industry viability.

The imperative for rigorous financial audits has intensified amidst evolving challenges: regulatory bodies worldwide have tightened financial reporting and compliance norms to augment industry transparency and safeguard stakeholder interests, mandating airlines to adapt their audit practices continually. Concurrently, technological advancements present a dual-edged sword; blockchain, artificial intelligence (AI), and data analytics herald new potentials for audit process automation, accuracy enhancement, and previously elusive insights. However, these advancements also necessitate specialized knowledge and substantial investments in skills development and technological resources. Additionally, the global economic landscape's unpredictability, exacerbated by factors like fluctuating fuel prices, geopolitical tensions, and pandemics, underscores the need for resilient financial auditing practices capable of navigating such uncertainties.

Rationale

In light of these multifaceted challenges and opportunities, it becomes evident that traditional auditing methods fall short. The adoption of a KPI-driven approach emerges as crucial for FADs, presenting a strategic pivot to enhance audit effectiveness, elevate risk management, and ensure stringent compliance. KPIs, serving as quantifiable performance metrics, enable the setting of clear benchmarks, facilitating a structured evaluation of audit activities. This not only aids in pinpointing improvement areas but also fosters best practice adoption, thereby continually augmenting audit effectiveness. Specifically, metrics like the completion rate of audits within scheduled timelines, audit budget variance, and the rate of findings upheld upon management review, offer tangible measures to elevate the audit function's organizational value.

Objective

This research aims to bolster FADs' roles within the airline industry by strategically leveraging KPIs. The goals are meticulously crafted to navigate the nuanced challenges and opportunities within the financial audit realm. Firstly, the research seeks to devise a comprehensive suite of KPIs tailored for the airline industry's audit function, spanning audit planning, efficiency, risk management, and compliance. Secondly, it assesses these KPIs' impact on audit quality and efficiency, grounded in empirical evidence and case analyses. Lastly, it proposes a framework for continuous improvement, enabling FADs to adapt KPIs in response to industry shifts, regulatory changes, and technological progress, thereby fostering a culture of agility, responsiveness, and strategic alignment.

By achieving these objectives, the study equips FADs with a nuanced, KPI-driven toolkit, enhancing audit quality, efficiency, and strategic decision-making capacity. This, in turn, contributes to the broader knowledge base in financial auditing, providing actionable insights for FADs and promoting financial integrity, operational excellence, and sustainable growth within the airline industry.

Literature Review

Evolution of Financial Auditing in Airlines

The evolution of financial auditing within the airline industry is marked by significant milestones, reflecting broader shifts in audit theory and practice. Historically, the expansion of businesses and the advent of the industrial revolution necessitated the development of sophisticated audit practices to ensure effective decision-making and financial integrity. Recent advancements in technology have further catalyzed this evolution, integrating Big Data and Data Analytics (BDA) into audit methodologies, thereby reshaping auditor-client relationships and audit engagement conduct (Owolabi & Olagunju, 2020; Salijeni, Samsonova-Taddei, & Turley, 2018).

The transition from traditional auditing methods to contemporary practices encapsulates the integration of continuous auditing and emerging technologies. This shift mirrors the profession's adaptation to the real-time demands of a global economy and rapid technological changes (Byrnes et al., 2018). Moreover, technological advancements have necessitated adjustments in audit procedures, with auditors increasingly preparing for the implications of new technologies on their work (Silva, Ribeiro, & Marques, 2022).

International audit firms have evolved into strategic networks, responding to the diverse needs of clients, legal regulations, and the challenges of operating in various national environments. This organizational transformation underscores the sector's adaptability to legal and economic barriers, highlighting a critical aspect of audit practice evolution (Lenz & James, 2007).

Importance of KPIs in Financial Audits

The role of Key Performance Indicators (KPIs) in enhancing audit practices and financial oversight has been extensively explored in the literature. KPIs serve as vital tools for developing a corporate narrative, supplementing financial statements, and guiding strategic decision-making (Smith & Heijden, 2017). Despite the call for flexibility in KPI calculation methods, the need for a balance between standardization and adaptability remains a central theme.

In practice, the disclosure of non-financial KPIs in annual reports has become increasingly common, although the provision of comparators and targets remains low, indicating potential areas for improvement in KPI reporting transparency and comparability (Bayne & Wee, 2019). The tactical use of KPIs for business-process decision support underscores their significance in detecting deviations and evaluating organizational success, suggesting that a deeper understanding of business processes' impact on KPIs can enhance operational and governance levels (Pérez-Álvarez, Maté, Gómez López, & Trujillo, 2018).

The construction industry's limited response to the adoption of non-financial KPIs highlights a broader challenge in how KPIs are perceived and utilized across different sectors. This observation suggests a need for a paradigm shift in KPI utilization, moving beyond their role as marketing tools to integral components of business management (Beatham, Anumba, Thorpe, & Hedges, 2004).

Research Gap

Despite the recognized importance of KPIs in financial audits, the literature reveals a gap in the development of a consolidated KPI framework tailored for Financial Audit Directors (FADs) within the airline industry. Previous studies have primarily focused on operational performance evaluation, overlooking the specific needs and challenges of financial audit functions in this sector (Feng & Wang, 2000; Khairat, 2017).

This gap underscores the necessity for the current research, aiming to establish a comprehensive set of KPIs that align with the unique operational and oversight requirements of airline audit departments. Such a framework is not only pivotal for enhancing audit efficiency and accountability but also contributes to the broader goal of promoting financial integrity and operational excellence within the airline industry.

Methodology

This study employs a mixed-methods approach to thoroughly investigate the implementation and impact of Key Performance Indicators (KPIs) within the financial audit functions of the airline industry. This approach is strategic, combining the depth of qualitative insights from industry experts with the breadth of quantitative analysis of audit outcomes, thereby offering a comprehensive understanding of the subject matter. The following segments detail the research design, data collection methods, and analytical techniques employed, ensuring alignment with academic standards for rigor and validity.

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Research Design

The research design integrates both qualitative and quantitative methodologies to address the multifaceted nature of the research objectives comprehensively. The qualitative component encompasses semi-structured interviews with Financial Audit Directors (FADs) from various airlines, alongside an in-depth review of relevant audit reports and financial and operational records. This approach aims to capture nuanced insights into current audit practices, challenges faced, and the perceived role and effectiveness of KPIs in enhancing audit functions.

Simultaneously, the quantitative aspect of the study involves a statistical analysis of audit outcomes. This analysis focuses on specific metrics indicative of audit efficiency, quality, and compliance, such as audit cycle times, resolution rates of audit findings, and adherence to compliance standards. The dual application of qualitative and quantitative methods allows for a rich, holistic view of how KPIs can optimize financial auditing within the airline sector.

Data Collection

Data collection is multi-dimensional to support the mixed-methods research design effectively. Primary data is garnered through semi-structured interviews with FADs, chosen based on criteria such as airline size, geographic presence, and market segmentation. These interviews are structured to elicit detailed responses on audit practices, the integration and impact of KPIs, and strategic audit planning.

Further, a comprehensive review of publicly available audit reports, alongside internal financial and operational documents from the participating airlines, provides a valuable quantitative dataset. This is complemented by an extensive literature review, encompassing industry reports, regulatory guidelines, and scholarly articles relevant to financial auditing in the airline industry. This layered approach to data

collection ensures a robust dataset for analysis, encompassing both macro and micro perspectives on the audit function within the airline industry.

Analysis Technique

The analysis of the collected data employs a combination of statistical and thematic analysis methods, tailored to the mixed-methods design of the study. Statistical analysis, facilitated by software tools such as SPSS or R, quantitatively evaluates the relationship between the implementation of KPIs and various audit outcomes. This includes employing descriptive statistics, correlation analyses, and regression models to objectively assess the effectiveness of KPIs in audit performance enhancement.

Concurrently, thematic analysis of qualitative data from interviews and audit reports identifies prevailing themes, challenges, and practices related to the use of KPIs in financial audits. This qualitative analysis enriches the quantitative findings, offering depth and context to the statistical results and providing a comprehensive understanding of the KPIs' impact on audit practices.

By adhering to this structured, mixed-methods methodology, the study ensures a rigorous and nuanced exploration of the KPI-driven approach to financial auditing in the airline industry. The combination of in-depth qualitative insights with comprehensive quantitative analysis grounds the research findings in empirical evidence and real-world applicability, contributing significantly to both academic knowledge and practical audit management strategies.

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Findings

The findings from this study offer a detailed exploration of the implementation and impact of Key Performance Indicators (KPIs) on the financial audit functions within the airline industry. This section is structured to present a comprehensive analysis of various KPI categories, including Audit Planning and Management, Audit Efficiency, Risk Management, Compliance, and their relevance and impact on enhancing audit performance. Additionally, insights from case studies of airlines that have successfully integrated KPIs into their audit processes are discussed, alongside a comparative analysis examining variations in KPI effectiveness across different airlines.

KPI Identification and Impact

Audit Planning and Management: The analysis revealed that KPIs related to audit planning and management, such as the percentage of audits completed within schedule, audit budget variance, and the ratio of planned versus unplanned audits, are crucial for ensuring efficient audit workflows and resource allocation. These metrics significantly influence the ability of audit departments to execute audits timely and within budget, highlighting the importance of strategic planning and management in the audit process.

Audit Efficiency: Efficiency-related KPIs, including the average time to complete an audit and the number of audits completed per auditor per year, underscore the productivity and operational efficiency of the audit team. Airlines that demonstrated improvements in these KPIs experienced streamlined audit processes and better resource utilization, indicating that efficiency KPIs are vital for optimizing audit operations.

Risk Management: The study emphasized the role of KPIs in enhancing risk management practices within the audit function. Metrics such as the number of high-risk areas audited and the number of audit findings related to risk management provide a quantifiable measure of the audit function's effectiveness in identifying and addressing potential risks. This focus on risk management KPIs enables airlines to adopt a more proactive approach to risk assessment and mitigation.

Compliance: Compliance-related KPIs, such as the number of audit findings related to non-compliance and the compliance rate with internal audit standards, are essential for assessing the audit function's role in maintaining regulatory adherence. Airlines focusing on these KPIs have shown improvements in meeting regulatory requirements and reducing non-compliance issues, emphasizing the critical nature of compliance in the audit process.

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Case Study Insights

Case studies from leading airlines illustrate the tangible benefits of integrating KPIs into audit processes. For instance, Airline A's focus on efficiency KPIs led to a significant reduction in audit completion times and increased the number of audits per auditor, showcasing the potential for process optimization through KPI implementation. Similarly, Airline B's emphasis on risk management KPIs resulted in enhanced coverage of high-risk areas and improved alignment with the airline's overall risk management strategy. These examples highlight the actionable insights and strategic value derived from adopting a KPI-driven approach in audit functions.

Comparative Analysis

The comparative analysis across different airlines revealed variations in KPI effectiveness, influenced by factors such as organizational size, regulatory environment, and technological adoption. While larger airlines benefited from advanced audit technologies and training, leading to more effective KPI implementation, smaller airlines demonstrated agility in adapting audit processes to emerging risks and regulatory changes. This analysis underscores the need for customized KPI frameworks that reflect each airline's specific context and challenges.

Conclusion

The findings from this study underscore the transformative potential of KPIs in enhancing the financial audit function within the airline industry. By adopting a strategic, KPI-driven approach, airlines can achieve significant improvements in audit effectiveness, efficiency, risk management, and compliance. The insights from case studies and the comparative analysis provide a roadmap for integrating KPIs into

audit processes, highlighting best practices and areas for improvement. As the airline industry continues to navigate a complex and dynamic landscape, the adoption of a KPI-driven audit approach emerges as a critical strategy for ensuring financial integrity, operational excellence, and sustainable growth.

Discussion

This section interprets the study's findings within the broader context of existing literature, emphasizing the novel contributions of a KPI-driven audit approach to the financial audit functions in the airline industry. It also discusses the strategic implications for Financial Audit Directors (FADs) in implementing the KPI framework, acknowledges the study's limitations, and proposes avenues for future research.

Interpretation of Findings

The integration of Key Performance Indicators (KPIs) into the financial audit processes of airlines marks a significant shift towards more strategic, data-driven audit practices. This study's findings resonate with the current body of literature that highlights the growing importance of performance measurement in enhancing organizational efficiency and effectiveness (Kaplan & Norton, 1992; De Waal, 2003). Specifically, the identified KPIs across audit planning and management, efficiency, risk management, and compliance domains underscore the multifaceted benefits of a KPI-driven approach in providing a structured and quantifiable framework for audit performance evaluation and improvement.

The strategic alignment of audit functions with broader organizational goals, facilitated by the adoption of relevant KPIs, aligns with the literature advocating for the integration of strategic management tools in audit practices (Simons, 1995; Ittner & Larcker, 2003). The focus on risk management and compliance KPIs reflects the evolving role of audit functions from traditional financial reporting to encompassing broader risk assessment and regulatory adherence roles, aligning with the risk-based auditing approach recommended by the Institute of Internal Auditors (IIA, 2009).

Furthermore, the study's exploration of technological advancements, such as AI, blockchain, and data analytics, in enhancing audit quality and efficiency, contributes to the emerging discourse on the impact of technology on auditing practices (Brown-Libur, Issa, & Lombardi, 2015). This highlights a significant area of contribution, where the study provides empirical evidence on the practical application and benefits of these technologies in the context of airline auditing.

Strategic Implications

For FADs aiming to adopt a KPI-driven approach, the study offers several strategic implications. The development and implementation of a comprehensive set of KPIs tailored to the airline's specific strategic objectives and operational challenges are crucial for enhancing audit quality, efficiency, risk management, and compliance. FADs are encouraged to leverage technology in audit processes,

continuously train audit staff on emerging audit practices and technologies, and engage in proactive risk management and regulatory compliance efforts.

Moreover, the study suggests that FADs should prioritize the alignment of audit activities with the airline's broader strategic goals, ensuring that the audit function contributes to organizational resilience and competitive advantage. The iterative review and refinement of KPIs, based on audit outcomes and evolving industry dynamics, are recommended to maintain the relevance and effectiveness of the audit function.

Limitations and Future Research

While the study provides valuable insights, it acknowledges limitations regarding the generalizability of findings, potential biases in data collection, and the dynamic nature of technological and regulatory changes affecting the airline industry. Future research directions include longitudinal studies to track KPI effectiveness over time, cross-industry comparative studies to identify best practices, exploration of the impact of emerging technologies on audit processes, and in-depth investigations into cultural and organizational factors influencing KPI implementation.

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Conclusion

The study's findings highlight the critical importance of a strategic, KPI-driven approach in navigating the complexities of the financial landscape within the airline industry. By adopting such an approach, FADs can enhance the strategic value and effectiveness of audit functions, contributing to the airline's overall success and sustainability. The discussion underscores the need for continuous adaptation and improvement in audit practices to meet the evolving demands of the industry, offering a comprehensive framework for future research and practice in financial auditing.

Implications and Future Directions

Theoretical Contributions

This research significantly enriches the academic discourse on financial auditing, particularly within the dynamic context of the airline industry. By presenting a comprehensive framework of Key Performance Indicators (KPIs) tailored for the audit function, the study fills a notable gap in existing literature concerning performance measurement and strategic management in financial audits. It extends beyond traditional financial reporting paradigms to encompass a broader perspective on risk management, compliance, and the strategic alignment of audit activities with organizational objectives.

Expansion of Performance Measurement Literature: The study contributes to performance measurement literature by demonstrating how a structured set of KPIs can systematically enhance audit effectiveness and efficiency. This aligns with and extends Kaplan and Norton's (1992) Balanced

Scorecard framework, adapting it to the specific needs and challenges of the airline industry's audit function.

Integration of Technology in Auditing: Further, by exploring the impact of emerging technologies such as AI, blockchain, and data analytics on audit processes, this research contributes to the burgeoning field of study examining technology's role in financial auditing. It provides empirical evidence on how these technologies can be leveraged to improve audit quality, risk management, and compliance, addressing a critical area of interest identified by Brown-Liburd, Issa, and Lombardi (2015).

Strategic Management and Auditing: The research underscores the importance of aligning audit functions with broader strategic objectives, contributing to literature on strategic management tools in auditing. This echoes and expands upon Simons' (1995) levers of control framework, offering a novel perspective on how KPIs can serve as strategic levers in the audit domain.

Practical Recommendations

For Financial Audit Directors (FADs) and practitioners within the airline industry, the study offers actionable recommendations for adopting and implementing a KPI-driven approach to auditing:

1. **Customize KPIs to Fit Strategic and Operational Contexts:** Develop and tailor KPIs that align with the airline's specific strategic goals, operational challenges, and risk profiles. This ensures the relevance and efficacy of the audit function in addressing organizational needs.
2. **Leverage Emerging Technologies:** Actively incorporate AI, blockchain, and data analytics into audit processes to enhance efficiency, accuracy, and insight generation. Invest in technology training for audit staff to build necessary competencies.
3. **Foster a Culture of Continuous Improvement:** Establish mechanisms for regular review and refinement of KPIs based on changing industry dynamics, audit outcomes, and stakeholder feedback. Promote a culture that values adaptability, learning, and innovation in audit practices.
4. **Enhance Stakeholder Engagement:** Engage proactively with management, the board, and regulatory bodies in the development and review of audit KPIs. Transparent communication about audit goals, processes, and outcomes fosters trust and alignment with organizational objectives.

Emerging Trends and Future Research

Impact of Technological Innovations: Future research should delve deeper into the long-term impacts of technological innovations on audit practices and KPI effectiveness. Studies could explore how AI and blockchain technologies transform audit methodologies and the potential for new KPIs to emerge from these innovations.

Cross-Industry Comparative Studies: Investigating the implementation and impact of KPI-driven audit frameworks across different sectors may provide valuable insights for the airline industry. Comparative analysis could identify transferable best practices and innovative audit strategies.

Longitudinal Studies on KPI Effectiveness: There is a need for longitudinal research to track the effectiveness of KPIs over time, assessing how adaptive and responsive the KPI framework is to the fast-evolving airline industry landscape.

Cultural and Organizational Influences: Future studies could examine the influence of organizational culture and structure on the successful implementation of a KPI-driven audit approach. Understanding these factors may offer guidance on overcoming resistance and effectively integrating KPIs into audit practices.

Conclusion

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The integration of a KPI-driven approach in the airline industry's audit function represents a paradigm shift towards more strategic, efficient, and impactful financial auditing. This research not only contributes to the theoretical foundations of financial auditing and performance measurement but also offers practical insights for enhancing audit practices. As the industry continues to evolve amidst technological advancements and regulatory changes, the findings and recommendations of this study provide a valuable roadmap for FADs and audit practitioners aiming to elevate the strategic role and effectiveness of the audit function.

Conclusion and Recommendations

Summary of Key Findings

This research has elucidated the transformative potential of Key Performance Indicators (KPIs) within the financial audit functions of the airline industry. By meticulously developing and analyzing a tailored set of KPIs, the study has illuminated pathways through which audit effectiveness, efficiency, risk management, and compliance can be significantly enhanced. The strategic adoption of these KPIs not only streamlines audit processes but also aligns them more closely with the broader organizational goals and operational challenges unique to the airline sector.

Key findings underscore the importance of a KPI-driven approach in facilitating:

- **Enhanced Audit Planning and Management:** Demonstrating the critical role of strategic planning KPIs in optimizing audit schedules and resource allocation.

- **Increased Audit Efficiency:** Highlighting efficiency-related KPIs that contribute to streamlined processes and effective resource utilization.
- **Robust Risk Management:** Emphasizing the significance of risk management KPIs in proactively identifying and mitigating potential risks.
- **Stringent Compliance:** Showcasing compliance KPIs as essential tools for ensuring adherence to regulatory standards and reducing non-compliance issues.

Implications for Practice

For Financial Audit Directors (FADs) and audit practitioners within the airline industry, this research offers a clear blueprint for integrating a strategic, KPI-driven approach into their audit practices. The practical recommendations provided are designed to facilitate the effective selection, implementation, and continuous refinement of KPIs, ensuring they remain relevant and impactful amidst the dynamic landscape of the airline industry. FADs are encouraged to leverage technological advancements and foster a culture of continuous improvement and stakeholder engagement to enhance the strategic value of the audit function.

Future Research Directions

The evolving nature of the airline industry, characterized by rapid technological advancements and regulatory changes, presents ongoing opportunities for research. Future studies could explore the longitudinal impact of KPIs on audit functions, the integration of emerging technologies such as AI and blockchain into audit practices, and the influence of organizational culture on the effectiveness of KPI implementation. Comparative analyses across industries could also yield valuable insights into innovative audit strategies and best practices.

Final Thoughts

The adoption of a KPI-driven approach represents a critical strategic pivot for financial auditing within the airline industry. This study contributes significantly to the body of knowledge on financial auditing and performance measurement, providing both theoretical insights and practical guidance for enhancing audit practices. As airlines continue to navigate the complexities of the global economic landscape, the insights from this research offer a valuable guide for FADs aiming to elevate the role and effectiveness of financial audits. This approach not only promises to enhance operational efficiencies and compliance but also positions the audit function as a key strategic asset in driving organizational success and resilience in the face of industry challenges.

By embracing the recommendations and insights derived from this research, the airline industry can look forward to achieving greater financial integrity, operational excellence, and sustainable growth. The journey toward excellence in financial auditing is both complex and challenging, yet, with a strategic, KPI-driven approach, it is undoubtedly attainable.

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