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Digital Transformation and Donor Accountability in Non-Governmental Organizations;

The Role of Digital Financial Controls in Kenya

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Abstract

Donor accountability and financial transparency remain critical challenges for non-governmental organizations (NGOs) in developing economies. This study investigates the mechanisms through which digital financial systems enhance internal controls and donor accountability compliance in Kenyan NGOs. Using a cross-sectional design with purposive sampling (N=30 finance professionals), we tested five hypotheses examining mediation and moderation pathways. Findings revealed that digital system adoption significantly strengthens internal controls (r=.379, p=.039), which in turn enhance donor accountability compliance (r=.743, p<.001). Mediation analysis confirmed that internal controls serve as the primary mechanism through which digital systems improve accountability (indirect effect=.282, p<.001). Additionally, organizational capacity significantly moderates this relationship, with capacity-constrained organizations benefiting substantially from digital adoption (r=.639, p=.010), while well-resourced organizations show a ceiling effect (r=-.349, p=.202). These findings suggest that digital transformation functions as an enabler that amplifies existing control structures, and that implementation strategies should account for organizational context. The study contributes to nonprofit management literature by empirically demonstrating the digital-controls-accountability nexus and providing evidence-based guidance for NGO leaders and donors.

1. Introduction

Donor accountability and financial transparency represent fundamental pillars of nonprofit organizational legitimacy and effectiveness. Non-governmental organizations (NGOs) operating in developing economies face heightened scrutiny from donors, regulatory bodies, and communities regarding how financial resources are deployed and accounted for. In Kenya, where a vibrant NGO sector delivers critical social services, the demand for accountability has intensified due to growing donor expectations, strengthened regulatory frameworks, and documented instances of financial mismanagement. This study addresses a critical research gap by empirically examining how digital financial systems can strengthen internal controls and enhance donor accountability compliance in Kenyan NGOs.

The integration of digital technologies into organizational operations—what researchers term digital transformation—has emerged as a strategic imperative across sectors (Mergel & Desai, 2023; Pew Research Center, 2022). Yet empirical evidence remains sparse regarding how digital systems specifically influence financial governance in the nonprofit context, particularly in resource-constrained settings. While technology access increases, questions persist about implementation effectiveness, mechanisms of impact, and conditions under which digital investments yield meaningful improvements in financial

accountability. This uncertainty is magnified in East Africa, where digital infrastructure is advancing rapidly but digital literacy and organizational capacity vary considerably (Sinha & Chandrashekaran, 2022).

To address this gap, we conduct an empirical investigation into five specific hypotheses concerning digital transformation, internal financial controls, and donor accountability compliance. Our research employs a mediation-moderation analytical framework to unpack the mechanisms and boundary conditions of digital system effectiveness. Using data from 30 finance professionals in Kenyan NGOs, we test whether digital systems improve accountability directly, through enhanced internal controls, and whether this relationship varies by organizational capacity. The study contributes to nonprofit management and information systems literatures by providing evidence-based insights into technology implementation strategies tailored to developing-economy contexts.

This manuscript is organized as follows. We first review theoretical foundations and prior empirical work, establishing the research gap. We then describe our methods, present results with detailed visual analysis of each hypothesis, and conclude with discussion of findings, practical implications, limitations, and directions for future research. Our analysis demonstrates that digital financial systems can meaningfully improve nonprofit accountability, but their impact depends critically on complementary organizational investments in internal controls and the capacity to absorb technological change.

2. Literature Review and Theoretical Framework

2.1 Digital Transformation in Nonprofit Organizations

Digital transformation—the fundamental reshaping of organizational operations through information and communication technologies—has become ubiquitous across sectors. In the nonprofit context, digital transformation encompasses adoption of financial management systems, donor databases, project tracking tools, and integrated platforms that automate financial workflows. Prior research identifies multiple benefits: improved operational efficiency, enhanced data quality, reduced administrative burden, and strengthened decision-making capacity (Mergel & Desai, 2023; Pew Research Center, 2022). However, the nonprofit context presents unique challenges. Compared to for-profit firms, NGOs operate with constrained budgets, limited technical expertise, and diverse stakeholder pressures. Consequently, technology adoption often lags commercial sectors, and when adoption occurs, implementation frequently falls short of optimal effectiveness. Recent evidence demonstrates that organizations must align technological infrastructure with organizational processes and workforce capability for meaningful performance improvement (James & Vinnicombe, 2023).

2.2 Internal Controls and Organizational Effectiveness

Internal control systems represent the processes, policies, and procedures organizations implement to safeguard assets, ensure regulatory compliance, and promote operational efficiency (Committee of Sponsoring Organizations [COSO], 2013). In nonprofit settings, robust internal controls are particularly critical given the fiduciary obligations to donors and public stakeholders. Controls comprise multiple dimensions: preventive controls (authorization procedures, segregation of duties), detective controls (reconciliations, audits), and corrective controls (exception procedures, corrective actions). Contemporary organizational theory emphasizes that effective controls depend not merely on their formal design but on how well they are integrated into daily operational workflows and supported by organizational capacity (Tucker & Fields, 2022).

2.3 Technology Implementation and Organizational Readiness

Successful technology implementation depends on organizational readiness—the extent to which organizations possess the resources, commitment, and capability to implement change effectively. Recent research in nonprofit management emphasizes that technology adoption is contingent on multiple factors including organizational maturity, staff digital literacy, financial resources, and leadership support (Heuvel & Houben, 2022; Rossmann et al., 2022). Organizational capacity—comprising human resources, technical infrastructure, financial resources, and leadership commitment—represents a critical moderator of technology implementation effectiveness. Organizations with stronger capacity are better positioned to customize systems to local contexts, train staff thoroughly, and troubleshoot implementation challenges. This suggests that the relationship between digital adoption and improved controls/accountability may not be uniform but rather contingent on baseline organizational capacity and readiness (Yener et al., 2022).

2.4 Research Gap and Theoretical Framework

Despite growing interest in digital transformation and nonprofit effectiveness, a critical gap exists: no empirical studies have simultaneously examined digital system adoption, internal control strengthening, and donor accountability improvement in the Kenyan NGO context. International studies focus primarily on developed-economy nonprofits with different resource contexts and governance environments. This study addresses this gap by integrating Systems Theory, organizational readiness frameworks, and contingency theory into a comprehensive model. We posit that digital financial systems exert influence on donor accountability through a mediation pathway (via internal controls) and that organizational capacity moderates this pathway. This framework acknowledges that technology alone does not guarantee