

Public Administration Innovation in Enhancing Bureaucratic Efficiency: An Analysis of the Government Service Transformation Model

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Article Info

Article history:

Received Jun 12th, 20xx

Revised Aug 20th, 20xx

Accepted Aug 26th, 20xx

Keyword:

Innovation; Public Administration;
Efficiency; Service Transformation

ABSTRACT (10 PT)

This study examines public administration innovation in enhancing bureaucratic efficiency through government service transformation. Employing a qualitative approach with a case study design, the research provides an in-depth understanding of processes, actor interactions, and the meanings embedded in complex and contextual bureaucratic innovation practices. The case study strategy enables comprehensive observation of innovation phenomena within their natural organizational settings, particularly how innovation policies are translated into operational actions and how public officials respond to institutional change. The study was conducted at two field locations: the Investment and One-Stop Integrated Services Office (DPMPTSP) of the DKI Jakarta Provincial Government and the Communication and Informatics Office (Diskominfo) of Surabaya City. These institutions were selected because both are actively and systematically implementing digital-based public service transformation. Data were collected from ten informants selected through purposive sampling to represent strategic, technical, operational roles, as well as service user perspectives, ensuring a holistic view of innovation dynamics. The findings indicate that the simultaneous integration of technology, strengthened inter-unit coordination, and enhanced bureaucratic capacity significantly improves efficiency. The study recommends structured innovation strategies, human resource capacity development, adaptive policy frameworks, and continuous evaluation to sustain effective public service transformation.



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INTRODUCTION

Public administration transformation has become an unavoidable agenda in the context of rapid social, economic, and technological change. Accelerated external dynamics increasingly compel bureaucratic institutions to adapt in order to remain relevant and capable of addressing the growing complexity of societal demands (Anon 2022a). Contemporary governance paradigms emphasize responsiveness, efficiency, and continuous improvement in service quality as core principles of public sector performance. Nevertheless, in practice, bureaucratic systems in many countries, including Indonesia, continue to face persistent structural and behavioral challenges. Multi-layered organizational hierarchies, conservative work cultures, rigid procedures, and fragmented service mechanisms often slow decision-making and service delivery processes (Anon 2023a). These conditions create a significant gap between public expectations and actual service performance, leading to dissatisfaction and a gradual erosion of public trust in government institutions. Within this context, public administration innovation emerges not merely as a policy alternative but as a strategic necessity for sustaining bureaucratic legitimacy and effectiveness (Pandey, Kumar, and Singh 2023).

Innovation in public administration extends beyond the adoption of new technologies. It encompasses broader transformations in work processes, organizational structures, inter-agency coordination, human resource capacity, institutional values, and decision-making mechanisms (Audretsch, Eichler, and Schwarz 2022). Through innovation, rigid bureaucratic characteristics can be

reoriented toward more adaptive, flexible, and citizen-centered modes of operation. In this sense, innovation functions as a critical bridge between traditional administrative systems and the demands of modern societies that require faster, more transparent, and higher-quality public services. The growing emphasis on innovation reflects a shift in public administration thinking, from rule-bound compliance toward performance-oriented governance that prioritizes outcomes, efficiency, and public value creation (Anon 2023b).

In Indonesia, the urgency of public administration transformation is reinforced by a strong legal and regulatory framework. Law Number 25 of 2009 on Public Services provides the foundational basis for service reform by establishing core service principles such as certainty, accuracy, timeliness, transparency, and accountability. These principles serve as minimum standards that every public service provider is required to fulfill. Importantly, the law explicitly mandates innovation as an obligation for service providers to ensure continuous improvements in quality and effectiveness (Kawabata and Camargo 2023). This mandate signals a normative shift that positions innovation as an integral component of public service governance rather than an optional initiative. Complementing this framework, Law Number 5 of 2014 on the State Civil Apparatus emphasizes professionalism, competency development, and the implementation of a merit-based system. These provisions underline the central role of human resources in driving bureaucratic transformation and underscore the need to realign organizational structures and work patterns with modern administrative demands (Aydiner 2020).

Regulatory support for innovation is further strengthened through sectoral and ministerial regulations. The Regulation of the Minister for Administrative and Bureaucratic Reform Number 30 of 2014 provides operational guidance on public service innovation, outlining key principles, typologies, and implementation mechanisms applicable across government institutions (Rachmad 2024). This regulation is reinforced by the Regulation of the Minister for Administrative and Bureaucratic Reform Number 89 of 2021 on Bureaucratic Reform, which places strong emphasis on digital governance, business process simplification, and service integration. Collectively, these legal instruments demonstrate that public administration transformation in Indonesia is not solely driven by technological trends or societal pressures but is also grounded in binding legal obligations that require government institutions to pursue more efficient, adaptive, and high-quality service delivery (Adepoju et al. 2024).

At the global level, innovation has become a central theme in public administration scholarship over the past two decades. International literature consistently highlights that successful bureaucratic modernization requires changes that extend beyond technical upgrades (Al-Muttaqin and Nugroho 2025). Organizational culture, leadership styles, institutional learning, and employee attitudes play decisive roles in shaping the outcomes of innovation initiatives. Empirical studies conducted in Europe, East Asia, and Latin America show that administrative innovation can significantly enhance bureaucratic efficiency by reducing procedural complexity, streamlining administrative stages, and accelerating workflows through digital systems (Asteriniah and Hestiriniah 2023). These studies also reveal improvements in coordination, transparency, and accountability as indirect benefits of innovation. However, the literature equally emphasizes that innovation outcomes are highly contingent on contextual factors, including regulatory alignment, organizational readiness, employee adaptability, and sustained leadership commitment (Dellyana, Arina, and Fauzan 2023).

Similar patterns are observed in Indonesian public administration research, although local conditions introduce additional layers of complexity. High levels of bureaucratic hierarchy, limited inter-agency coordination, and disparities in technological capacity between central and local governments often constrain the effectiveness of innovation initiatives (Hartono et al. 2023). In many cases, digital systems are introduced without adequate integration or organizational restructuring, resulting in parallel manual and digital processes that undermine efficiency gains. These challenges indicate that innovation cannot be treated as a standalone intervention but must be embedded within broader organizational and cultural transformation processes. Consequently, examining how innovation is operationalized within specific service contexts remains a critical research priority (Hilmawan et al. 2023).

The core problem addressed in this study relates to the slow and uneven translation of innovation policies into operational bureaucratic practices. Despite the proliferation of reform programs and innovation mandates, empirical evidence suggests that implementation remains inconsistent across service units. Public services continue to be characterized by lengthy processing times, repetitive procedures, fragmented information systems, and limited interoperability between digital platforms. Such conditions indicate that innovation has not yet been fully institutionalized as part of everyday bureaucratic routines. In many instances, innovation initiatives remain project-based and fail to evolve into sustainable systems. Limited employee preparedness, insufficient training, weak evaluation mechanisms, and resistance to change further exacerbate these implementation gaps (Kusumastuti et al. 2023).

The research gap addressed in this study emerges from two primary dimensions. First, existing studies tend to focus predominantly on policy design, innovation frameworks, or macro-level reform strategies, with relatively limited attention to how innovation is interpreted and enacted by frontline bureaucrats (Amirullah 2024). Yet, the success of innovation is ultimately determined by how policies are translated into daily practices by public officials. Understanding innovation at the operational level is therefore essential for assessing its real impact on bureaucratic efficiency. Second, much of the literature treats technology, leadership, organizational culture, and citizen engagement as separate analytical domains. Few studies attempt to integrate these dimensions into a unified model of service transformation. This fragmentation limits the ability to capture the complex and interdependent nature of bureaucratic innovation processes (Hulu et al. 2025).

The novelty of this research lies in its effort to map a government service transformation model that captures the simultaneous interaction between digitalization, work process restructuring, and capacity building of public officials. Innovation is conceptualized as an integrative process that connects procedural simplification, coordination enhancement, and behavioral adaptation within a single transformation framework. This perspective contributes theoretically by expanding the understanding of public administration innovation from a narrow focus on technical or procedural improvements to a more holistic organizational renewal that encompasses human, structural, and technological dimensions (Anon 2022d).

Accordingly, this study is guided by the central question of how public administration innovation can enhance bureaucratic efficiency through a government service transformation model. The research examines how innovation is implemented within service units, identifies key enabling and constraining factors, analyzes the role of digital technology in reshaping bureaucratic work patterns, and assesses the implications of these changes for service efficiency. These questions direct the analysis toward identifying the core mechanisms that determine innovation success at the operational level (Farida and Setiawan 2022).

The primary objective of the study is to conduct a comprehensive analysis of government service transformation models driven by public administration innovation. Specifically, the study aims to describe the dynamics of innovation implementation within service units, identify supporting and inhibiting factors, examine the use of digital technologies in improving work efficiency, and formulate an innovation model that can inform more effective public service policy development (Golightly et al. 2022).

The significance of this research can be viewed from three dimensions. Theoretically, it enriches public administration scholarship by offering an integrative framework for understanding service transformation. Academically, it provides a conceptual and empirical foundation for future studies on bureaucratic innovation dynamics. Practically, the findings offer evidence-based recommendations that can assist government institutions in designing more targeted, user-oriented, and sustainable service transformation strategies (Asteriniah and Hestiriniah 2023).

This study is subject to certain limitations, particularly in terms of data scope, which is confined to specific service units. As a result, the findings cannot be generalized across the entire bureaucratic system (Anon 2022b). Additionally, rapid technological and policy changes may require contextual adjustments when applying the findings more broadly. Future research is therefore encouraged to adopt

comparative and mixed-method approaches across regions or countries to strengthen empirical evidence and deepen understanding of innovation impacts on public service performance.

RESEARCH METHODS

This study adopts a qualitative research approach designed to generate an in-depth understanding of public administration innovation within the context of government service transformation. A qualitative strategy is considered appropriate because the research focuses on processes, interactions among actors, interpretations, and meanings that shape bureaucratic innovation practices (Hayhoe and Brewer 2020). Public administration transformation cannot be adequately captured through quantitative indicators alone, as service innovation often unfolds through socially constructed experiences, negotiations, and adaptations within organizational settings. Consequently, this study prioritizes the exploration of how innovation is understood, implemented, and institutionalized in everyday bureaucratic practice, particularly in relation to efforts to improve bureaucratic efficiency (Vila-Henninger 2024).

The research is structured using a qualitative case study design. This design enables a comprehensive examination of innovation phenomena within their natural organizational contexts and allows the researcher to capture the complexity and contextual specificity of bureaucratic transformation (Ewing and Park 2020). The case study approach provides analytical flexibility to investigate how innovation policies are translated into operational actions, how public officials interpret and respond to change, and how institutional dynamics influence the effectiveness of service transformation. Given that public service innovation is shaped by the interaction of policy frameworks, organizational structures, technological systems, and human behavior, the case study design offers a robust methodological foundation for developing an empirically grounded analytical model (Deng 2022).

The selection of a case study design is also justified by the holistic nature of the research problem. Innovation in government services is not a linear or isolated process, but rather a multidimensional phenomenon influenced by structural arrangements, organizational culture, leadership, and digital infrastructure. A case study enables the mapping of these interrelated factors and facilitates a nuanced understanding of why certain innovations succeed while others encounter resistance or stagnation. Moreover, this design is particularly suitable for examining complex and context-dependent phenomena involving multiple actors with diverse roles and interests, as is characteristic of bureaucratic innovation (Fua and Wirantari 2025).

The research was conducted at two field locations that represent advanced local government initiatives in digital-based public service transformation. The first research site is the Investment and One-Stop Integrated Services Office (DPMPTSP) of the DKI Jakarta Provincial Government (Susanto et al. 2020). This institution was selected because it has implemented structured and intensive digitalization of licensing services through platforms such as JakEvo and regionally integrated Online Single Submission (OSS). These initiatives aim to simplify licensing procedures, reduce processing time, and enhance transparency, making DPMPTSP DKI Jakarta a relevant empirical setting for examining administrative innovation and bureaucratic efficiency.

The second research site is the Communication and Informatics Office (Diskominfo) of Surabaya City. Diskominfo Surabaya plays a central role in driving city-wide digital transformation through various e-government platforms, including the Surabaya Single Window (SSW) and data-based public service control centers. The institution is also responsible for managing digital service integration across municipal agencies, providing a comprehensive perspective on systemic administrative transformation at the city level. The selection of these two sites allows for comparative insights into how innovation is implemented across different organizational functions and governance scales, while maintaining a shared focus on digital service transformation (Fitriyanti 2024).

Informant selection was conducted using purposive sampling, whereby participants were chosen based on their relevance and involvement in public administration innovation processes at the two research sites. A total of ten informants participated in the study, representing strategic, technical, operational, and user perspectives. This sampling strategy ensures that the data reflect diverse

viewpoints across the innovation ecosystem and supports a holistic analysis of bureaucratic transformation dynamics (Syarofi and Syam 2025).

At DPMPTSP DKI Jakarta, five informants were selected to represent key organizational roles. The first informant is the Head of Service Division, who holds strategic responsibility for directing licensing reform and coordinating digital transformation initiatives. The second informant is the Digital Service Coordinator, who oversees the development and management of online licensing platforms, including system integration and service optimization. The third informant is a Policy Analyst responsible for formulating new standard operating procedures, harmonizing regulations, and ensuring alignment between service procedures and bureaucratic reform objectives. The fourth and fifth informants are frontline service officers, namely a Service Counter Officer and a Front Office Staff member managing the electronic queue system. These informants were selected because they interact directly with service users and operate digital systems in daily service delivery, providing critical insights into the operational realities of innovation implementation (Blummer and Kenton 2020).

At Diskominfo Surabaya City, five additional informants were selected based on their strategic and technical roles in managing digital innovation. The first informant is the Head of Applications and Informatics Division, who leads policy formulation for city information systems and oversees the implementation of smart governance initiatives. The second informant is the Head of Information System Development Section, responsible for coordinating the development and maintenance of integrated public service applications. The third informant is an Electronic-Based Government System (SPBE) Analyst, who ensures alignment between service needs, technological design, and national digital governance standards. The fourth informant is a senior technology developer responsible for integrating multiple municipal digital platforms. The fifth informant is a representative of digital service users, selected to provide an external perspective on service accessibility, usability, and perceived efficiency (Gaber 2020).

To ensure ethical compliance, all informants were assigned pseudonyms, while their positions and roles are described factually in accordance with organizational structures. The purposive selection of informants reflects their strategic relevance in planning, implementing, and evaluating public administration innovation. This composition enables the study to capture interactions between policy intent, technological design, operational practice, and user experience.

Table 1. Research Locations and Informants in Local Government Institutions

Research Location	Institution	Number of Informants	Informant Positions	Rationale for Site Selection
DKI Jakarta Province	Investment and One-Stop Integrated Services Office (DPMPTSP) of DKI Jakarta Province	5	Head of Service Division; Digital Service Coordinator; Policy Analyst; Service Counter Officer; Front Office Staff (Electronic Queue System)	(1) Implementation of digital licensing services through JakEvo and regional OSS; (2) Represents structured and intensive bureaucratic transformation
Surabaya City	Communication and Informatics Office (Diskominfo) of Surabaya City	5	Head of Applications and Informatics Division; Head of Information System Development Section; SPBE Analyst; Senior Technology Developer; Digital Service User Representative	(1) Central driver of city-wide digitalization through Surabaya Single Window; (2) Manages cross-agency digital service integration

Source: Compiled by the author based on field research, 2026.

Table 1 presents an overview of the research locations and the composition of informants involved in this study, highlighting the institutional contexts in which public administration innovation and service transformation were examined. The table illustrates that the research was conducted in two local government institutions that play strategic roles in digital-based public service delivery, namely the Investment and One-Stop Integrated Services Office (DPMPTSP) of DKI Jakarta Province and the Communication and Informatics Office (Diskominfo) of Surabaya City. Each institution contributed five informants selected to represent diverse organizational functions and perspectives, ranging from strategic leadership and policy formulation to technical implementation, frontline service operations, and service user experiences. The selection of DPMPTSP DKI Jakarta reflects its advanced implementation of digital licensing systems, such as JakEvo and the regional Online Single Submission platform, which exemplify structured bureaucratic transformation. Meanwhile, Diskominfo Surabaya was chosen due to its central role in driving city-wide digitalization and managing cross-agency service integration through the Surabaya Single Window, providing a comprehensive setting for analyzing systemic innovation dynamics.

Table 2. Research Informants and Their Roles

No.	Pseudonym	Position/Role	Institution (Location)
1	Arsya	Head of Service Division	DPMPTSP DKI Jakarta
2	Dharma	Digital Service Coordinator	DPMPTSP DKI Jakarta
3	Nayla	Policy Analyst	DPMPTSP DKI Jakarta
4	Bima	Service Counter Officer	DPMPTSP DKI Jakarta
5	Ratih	Front Office Staff (Queue System)	DPMPTSP DKI Jakarta
6	Fahri	Senior Technology Developer	Diskominfo Surabaya City
7	Sena	SPBE System Analyst	Diskominfo Surabaya City
8	Kirana	Digital Service User	Diskominfo Surabaya City
9	Adma	Government Information System Officer	Diskominfo Surabaya City
10	Liora	City Digital Platform Integration Specialist	Diskominfo Surabaya City

Source: Compiled by the author based on field research, 2026.

Table 2 summarizes the profile of research informants and clarifies their respective roles within the studied local government institutions. The table demonstrates that the informants were deliberately selected to capture a balanced representation of strategic, managerial, technical, operational, and user-level perspectives in the implementation of public service innovation. Informants from DPMPTSP DKI Jakarta reflect the internal structure of service delivery, ranging from leadership and policy analysis to frontline service officers who directly interact with digital systems and citizens. This composition allows the study to examine how innovation is interpreted and implemented across hierarchical levels within the bureaucracy. Meanwhile, informants from Diskominfo Surabaya City represent the technological and integrative dimension of digital governance, including system analysts, technology developers, and platform integration specialists, as well as a digital service user to incorporate an external viewpoint. The use of pseudonyms ensures confidentiality while preserving analytical depth. Overall, the diversity of informant roles strengthens the credibility of the findings by enabling triangulation of perspectives on administrative innovation, organizational transformation, and bureaucratic efficiency.

Data collection employed three primary techniques: in-depth interviews, direct observation, and document analysis. In-depth interviews were conducted to explore informants' experiences, interpretations, and assessments of service innovation. Semi-structured interview guides were used to ensure consistency while allowing flexibility for informants to elaborate on issues they considered significant. This technique enabled the capture of both rational assessments and experiential insights related to innovation implementation.

Direct observation was carried out within service units to examine work patterns, service flows, staff-citizen interactions, and the practical use of digital technologies. Observation facilitated the identification of discrepancies between formal innovation policies and actual practices, as well as unintended consequences of digitalization. Document analysis complemented these techniques by

examining service guidelines, revised standard operating procedures, innovation reports, and policy documents to contextualize empirical findings.

Data analysis was conducted using thematic analysis. This approach was selected for its capacity to identify patterns, categories, and relationships within complex qualitative data. The analytical process involved repeated data immersion, initial coding, theme development, and interpretation of inter-theme relationships. Through thematic analysis, the study systematically explains how innovation is conceptualized, enacted, and experienced by different actors, ultimately supporting the development of an analytical model of government service transformation.

Validity and reliability were enhanced through methodological triangulation, comparing findings from interviews, observations, and documents. Member checking was also conducted by inviting informants to review and confirm key interpretations. These procedures ensure that the findings remain grounded in empirical realities and minimize interpretive bias.

Overall, this methodological design provides a rigorous and coherent framework for analyzing public administration innovation in enhancing bureaucratic efficiency. The integration of a qualitative case study design, purposive sampling, multi-method data collection, and thematic analysis ensures that the study offers robust theoretical and practical contributions to the development of effective, adaptive, and sustainable government service transformation models.

RESULTS AND DISCUSSION

The results indicate that digital workflow innovation constitutes a foundational driver of bureaucratic efficiency within government service transformation. Empirical evidence shows that the transition from paper-based administration to integrated digital systems significantly accelerated service delivery processes while reducing administrative redundancy. Digital platforms enabled real-time data verification, minimized repetitive data entry, and reduced the likelihood of clerical errors that commonly occur in manual systems. These improvements collectively contributed to a more streamlined and predictable service environment.

The findings further reveal that digitalization enhanced transparency throughout the service lifecycle. Each administrative action generated a digital trace, allowing supervisors and oversight bodies to monitor service progression without direct physical intervention. This automated audit trail strengthened accountability mechanisms and improved consistency in service outcomes across units. As a result, efficiency gains were accompanied by improvements in governance quality, suggesting that innovation does not merely optimize speed but also reinforces institutional integrity.

However, the data also demonstrate that digital tools alone are insufficient to generate sustained efficiency gains. Units that adopted technology without adjusting underlying procedures experienced limited performance improvements. This indicates that digital innovation must be embedded within a coherent administrative logic that aligns technology with organizational routines. Consequently, digital workflow innovation functions most effectively when integrated with broader institutional reform.

Procedural Simplification and Structural Realignment in Service Delivery

The second major result concerns the role of procedural simplification in reducing bureaucratic inefficiencies. The study finds that many service delays stemmed from overly complex administrative procedures that had evolved incrementally over time without systematic evaluation. By redesigning service flows and removing non-essential approval stages, public institutions achieved substantial reductions in processing time while maintaining legal certainty.

Procedural simplification also altered internal coordination patterns. Simplified workflows required greater horizontal interaction among units, replacing rigid hierarchical sequences with more collaborative arrangements. This structural realignment reduced fragmentation and enabled faster problem resolution when service disruptions occurred. The results suggest that efficiency is not solely a function of fewer steps but also of improved interaction among organizational actors.

Importantly, the findings demonstrate that procedural reform strengthened user accessibility. Citizens encountered clearer service requirements, fewer administrative barriers, and more predictable timelines. This outcome confirms that efficiency improvements at the organizational level translate into tangible benefits for service users, reinforcing public trust in government institutions.

Inter-Agency Coordination and Human Adaptation in Innovation Implementation

The third key finding highlights the importance of inter-agency coordination and human adaptation in sustaining innovation-driven efficiency. Collaborative digital platforms facilitated data sharing and synchronized workflows across organizational boundaries. Units that previously operated in isolation were able to coordinate service delivery more effectively, reducing duplication and miscommunication.

Despite these gains, the results also reveal initial resistance among staff, primarily related to uncertainty and uneven digital competencies. Rather than constituting outright opposition, resistance reflected adaptive challenges commonly associated with organizational change. Over time, continuous training, peer support, and participatory implementation strategies mitigated these challenges and improved staff confidence in using new systems.

The findings underscore that innovation is fundamentally a social process. Efficiency gains materialized only when human capabilities evolved alongside technological and structural changes. This highlights the central role of organizational learning and adaptive capacity in public administration innovation.

Table 3. Summary of Key Research Findings on Bureaucratic Efficiency

Innovation Dimension	Empirical Findings	Efficiency Implications
Digital Workflow Systems	Accelerated service processing, reduced duplication, enhanced transparency	Faster, more accountable service delivery
Procedural Simplification	Removal of redundant stages, clearer service flows	Reduced processing time and administrative burden
Coordination and Human Adaptation	Improved inter-unit collaboration and gradual staff adjustment	Sustainable efficiency through organizational learning

Source: Compiled by the author from field research, 2026.

Table 3 presents a concise synthesis of the key empirical findings of the study and their implications for bureaucratic efficiency. The table illustrates how three interrelated dimensions of innovation collectively contribute to improving public service performance. First, the implementation of digital workflow systems is shown to accelerate service processing by minimizing duplication, enabling real-time data verification, and strengthening transparency across administrative stages. These improvements directly translate into faster and more accountable service delivery. Second, procedural simplification emerges as a critical structural mechanism, where the elimination of redundant stages and the clarification of service flows significantly reduce processing time and administrative burden for both officials and service users. Third, enhanced coordination and human adaptation highlight the importance of organizational learning, as improved inter-unit collaboration and gradual staff adjustment support the sustainability of efficiency gains. Overall, the table emphasizes that bureaucratic efficiency is not driven by technology alone, but by the integrated alignment of digital systems, streamlined procedures, and adaptive human capacities.

The results affirm that public administration innovation operates as a multidimensional process rather than a discrete technical intervention. Consistent with Public Administration Innovation Theory, the findings demonstrate that bureaucratic systems are characterized by strong path dependency, which limits responsiveness when innovation is introduced without structural adjustment. Digital technologies disrupted these entrenched patterns by reconfiguring workflows, but their effectiveness depended on complementary procedural reform.

The findings extend existing scholarship by showing that efficiency gains emerge from the interaction between technology and institutional design. This challenges approaches that conceptualize

digital government primarily as an automation exercise. Instead, the study supports a process-oriented understanding of innovation, where efficiency is produced through coordinated changes in rules, routines, and behaviors.

Organizational Transformation and the Role of Structural Alignment

From the perspective of Organizational Transformation Theory, the results highlight the necessity of structural alignment in innovation implementation. Simplified procedures created new coordination logics that reduced hierarchical rigidity and encouraged horizontal collaboration. This transformation altered power relations and decision-making dynamics within organizations, enabling faster responses to service demands.

The discussion reveals that partial transformation produces limited outcomes. Units that adopted digital systems without revising structural arrangements experienced persistent inefficiencies. This supports theoretical arguments that organizational transformation must be systemic rather than incremental to achieve sustainable performance improvements.

Furthermore, the results suggest that procedural simplification enhances institutional resilience. By reducing dependence on individual discretion and informal practices, simplified workflows created more predictable service environments capable of adapting to future policy or technological changes.

Dynamic Capabilities and Human-Centered Innovation

The findings strongly align with Dynamic Capability Theory, particularly regarding sensing, seizing, and transforming processes. Effective innovation implementation required organizations to identify service inefficiencies, mobilize technological and human resources, and institutionalize new routines. Units with stronger learning cultures demonstrated higher adaptive capacity and sustained efficiency gains.

Human adaptation emerged as a decisive factor in determining innovation outcomes. Training programs that were incremental, context-specific, and practice-oriented proved more effective than standardized, large-scale training initiatives. This finding contributes to the literature on bureaucratic capacity by emphasizing that competence development must be embedded in daily work practices.

The discussion also highlights that resistance to innovation should be interpreted as an adaptive challenge rather than a failure of commitment. When managed through inclusive and supportive strategies, resistance diminished over time, enabling deeper institutionalization of innovation.

Addressing Implementation Gaps through an Integrative Transformation Model

The study identifies a persistent gap between policy expectations and operational realities, reflecting uneven infrastructure readiness and variable human capacity. This gap underscores limitations in innovation strategies that prioritize policy design over implementation dynamics. Existing literature often emphasizes strategic frameworks without adequately examining how innovations are interpreted and enacted by frontline administrators.

By proposing an integrative transformation model that connects digital systems, organizational structures, and human behavior, this study addresses this gap. The model demonstrates that efficiency improvements are most pronounced when these dimensions evolve simultaneously. Fragmented reforms, by contrast, generate uneven outcomes and may even increase administrative burden.

This integrative perspective advances theoretical understanding by bridging fragmented innovation studies and offering a holistic explanation of service transformation. It also provides practical guidance for policymakers seeking to design reforms that are both ambitious and implementable.

Implications for Theory, Policy, and Practice

The discussion highlights several implications. Theoretically, the study refines innovation theory by emphasizing the interdependence of technology, structure, and human agency. Academically,

it provides an empirical framework that can be tested across different administrative contexts. Practically, it offers evidence-based insights for governments aiming to enhance efficiency through sustainable innovation strategies.

Overall, the findings confirm that public administration innovation enhances bureaucratic efficiency when managed as a continuous, integrative transformation process. Efficiency is not achieved through isolated interventions but through coherent alignment of digital tools, procedural reform, and human capability development. This study thus contributes substantively to contemporary debates on government service transformation in the digital era.

CONCLUSION

This study concludes that innovation in public administration constitutes a decisive and strategic mechanism for enhancing bureaucratic efficiency, particularly when embedded within a structured and systematic model of government service transformation. The empirical findings demonstrate that administrative innovation should not be understood as a superficial modification of procedures, but rather as an integrated approach that combines digital technology, inter-unit coordination, and internal process refinement. The convergence of these elements enables tangible acceleration of public services, reduces procedural complexity, and minimizes long-standing administrative bottlenecks that have traditionally constrained bureaucratic performance. As discussed in the preceding sections, strategically designed innovation fosters a more responsive and adaptive organizational environment, allowing public institutions to better align service delivery with evolving societal demands.

The study further establishes that the success of administrative innovation is not determined solely by technological adoption, but is fundamentally shaped by the capacity of public officials to manage and internalize change. The findings indicate that intensive training, competency development, and sustained digital infrastructure support are essential prerequisites for ensuring that innovation is implemented consistently and maintained over time. When public servants possess a clear understanding of innovation mechanisms and operational objectives, bureaucratic organizations demonstrate a greater ability to respond to service demands efficiently and accurately. Human capacity development therefore emerges as a foundational pillar that underpins innovation effectiveness, ensuring that newly introduced procedures and systems function as intended rather than becoming symbolic or underutilized reforms.

Another important conclusion concerns the role of adaptive policy frameworks in facilitating effective service transformation. The research confirms that bureaucratic innovation thrives in institutional environments characterized by flexibility and openness to contextual adjustment. Given that traditional bureaucracies are often perceived as slow and rigid, the ability of institutions to adapt innovation strategies to changing social conditions and citizen expectations becomes a critical determinant of success. The findings suggest that rapid adaptation reduces the gap between public expectations and actual service performance, thereby strengthening governmental legitimacy. In this sense, innovation contributes not only to procedural efficiency but also to trust-building through visible and measurable improvements in public service outcomes.

The study also concludes that the application of public administration innovation models has a direct and measurable impact on service acceleration through the elimination of unnecessary stages, enhanced cross-unit coordination, and optimal use of information technology. These impacts are reflected in improvements in service speed, accuracy, and quality, which collectively reinforce bureaucratic effectiveness. The findings support the argument that innovation functions as a key instrument for improving governance practices, shifting bureaucratic behavior from reactive compliance toward proactive service orientation. Moreover, increased process efficiency contributes to lower operational costs and higher citizen satisfaction, indicating that innovation generates dual value for both government institutions and service users.

Overall, the research confirms that administrative innovation, when integrated with service transformation strategies, has the capacity to produce a more agile, responsive, and credible bureaucracy. Effective implementation requires a balanced combination of technological integration,

human resource development, and adaptive policy support. With sustained commitment to innovation, bureaucratic institutions can overcome entrenched inefficiencies and enhance public trust. This study provides empirical evidence that bureaucracies are capable of rapid and meaningful transformation, challenging persistent assumptions of institutional inertia, provided that innovation is managed strategically, continuously, and supported by competent human resources.

Recommendations aimed at strengthening public administration innovation as a primary vehicle for improving bureaucratic efficiency and advancing government service transformation. First, governments should formulate comprehensive and well-structured innovation strategies that move beyond isolated procedural changes. Such strategies must integrate digital technology, cross-unit coordination, and systematic process improvement into a unified reform framework. A holistic approach enables bureaucratic organizations to operate more swiftly and adaptively, reduces administrative friction, and delivers measurable improvements in service quality. As demonstrated by the research findings, strategically coordinated innovation enhances organizational responsiveness while simultaneously reinforcing institutional legitimacy.

Second, strengthening human resource capacity should be prioritized as a central component of service transformation initiatives. The study underscores that innovation outcomes are highly dependent on the competencies of public officials responsible for implementation. Governments should invest in continuous and targeted training programs that emphasize digital literacy, change management, and problem-solving skills. Capacity-building initiatives should be embedded within daily administrative practices rather than treated as one-off interventions. By prioritizing human capital development, bureaucracies can ensure that new systems and procedures are applied consistently, resulting in faster, more accurate, and higher-quality public services.

Third, the study recommends the adoption of adaptive policy frameworks that enable bureaucratic institutions to respond swiftly to technological, regulatory, and societal changes. Flexible policies allow organizations to recalibrate innovation strategies in line with citizen needs and contextual realities, thereby reducing the disconnect between policy intent and service outcomes. Adaptive governance also contributes to public trust, as innovation is perceived not merely as procedural reform but as a tangible commitment to improving service performance. Policymakers should therefore design regulatory environments that encourage experimentation, learning, and continuous improvement.

Fourth, governments are encouraged to intensify the use of digital technologies and process optimization through innovation models that have demonstrated effectiveness in accelerating service delivery, simplifying workflows, and strengthening inter-unit coordination. Optimized use of information technology can significantly reduce operational costs while enhancing citizen satisfaction. To ensure sustainability, innovation initiatives should be accompanied by regular monitoring and evaluation mechanisms that assess performance outcomes and identify areas requiring adjustment. Continuous evaluation enables institutions to sustain positive impacts while remaining responsive to emerging challenges.

Finally, the study recommends strengthening cross-sector collaboration as a means of reinforcing administrative innovation. Partnerships with academic institutions, the private sector, and civil society can broaden perspectives, enhance creativity, and maximize resource utilization. Such collaboration supports the development of more comprehensive and adaptive service solutions, consistent with the study's conclusion that integrated innovation produces agile, responsive, and trustworthy bureaucratic institutions. By combining strategic innovation planning, human capacity development, adaptive policy design, technological optimization, and cross-sector collaboration, governments can ensure that bureaucratic efficiency improvements are both sustainable and socially legitimate.

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