

ENHANCING PUBLIC TRUST THROUGH JUDICIAL DIGITALIZATION: A CASE STUDY OF INDONESIA'S E-COURT SYSTEM

HAMBALI^{1,*} AND NARONG KIETTIKUNWONG²

^{1,2} COLLEGE OF LOCAL ADMINISTRATION, KHON KAEN UNIVERSITY

* Corresponding Author E-mail: hambali.h@kkumail.com

Research Article

RECEIVED 12 MARCH 2025, REVISED 8 APRIL 2025, ACCEPTED 21 APRIL 2025

ABSTRACT

Public trust in the judiciary is essential for governance legitimacy and effectiveness, with digital transformation increasingly reshaping how courts operate and engage with citizens. This paper examines how the implementation of e-Court in Indonesia impacts public trust in the judiciary. Employing a systematic conceptual analysis approach, the study analyzes 42 documents (2015-2025) comprising government documents, academic publications, and research reports, selected based on relevance and credibility criteria. The analysis employs a five-step thematic process with data triangulation across multiple sources to ensure reliability. The study identifies four interconnected pathways through which e-Court affects public trust: enhanced operational transparency, improved judicial efficiency, increased accessibility, and strengthened accountability. The research reveals a paradoxical nature of digital courts in developing contexts, where they simultaneously enhance trust through improved transparency while potentially creating trust disparities through digital divide effects. Empirical illustrations from contrasting urban and remote implementation contexts demonstrate varying impacts across Indonesia's diverse landscape. While e-Court has significantly improved court operations, challenges remain, including the digital divide, uneven institutional readiness, and data security concerns. The study's reliance on secondary data presents limitations in directly measuring diverse public perceptions. The findings contribute to understanding institutional trust dynamics in digitalized governance contexts and suggest that hybrid service models combining digital and traditional channels may maximize trust benefits across diverse populations.

Keywords: Judicial digitalization, e-Court, Public trust, Digital governance

1. Introduction

Public trust in the judiciary represents a fundamental element of governance legitimacy, as a cornerstone for social order, policy compliance, and institutional stability. The rapid digital transformation of government services has profoundly reshaped public administration in recent years, fundamentally altering how governments deliver services to citizens. Judicial systems have increasingly integrated digital technologies to modernize operations, reduce administrative burdens, and expand public access to legal services. This transformation has redefined traditional judicial processes, allowing for faster and more transparent adjudication of cases (Cordella & Contini, 2020).

Before digital transformation initiatives, many judicial systems worldwide, including Indonesia's, faced significant challenges that undermined public trust. Court processes were characterized by procedural delays, limited transparency, and geographical barriers to access, particularly affecting citizens in remote areas. These conditions directly impacted public confidence in the judiciary's ability to deliver justice fairly and efficiently. In response, implementing electronic court (e-Court) systems has become a global trend, facilitating remote case processing, automating documentation, and providing citizens with direct access to judicial proceedings. These innovations aim to improve both legal accessibility and institutional efficiency, while potentially strengthening public trust in the judiciary (Wang, 2024).

Indonesia has embarked on significant judicial digitalization reforms through the e-Court system established by the Supreme Court. According to the Waseda-IAC World Digital Government Ranking 2023, Indonesia ranked 25th out of 66 surveyed countries, with e-court processes becoming increasingly prominent (Waseda University, 2023). The Supreme Court's Judicial Reform Blueprint 2010-2035 outlined a comprehensive digital transformation strategy with three phases: Electronic Case Reporting (2010-2015), Electronic Case Management (2016-2020), and Online Courts (2021-2025) (The Supreme Court of the Republic of Indonesia, 2010). The e-Court system, launched in 2018 through Supreme Court Regulation Number 3 of 2018, represents a significant milestone in this journey, with features enabling electronic case filing, payment, summons, and eventually virtual hearings (Kharlie & Cholil, 2020).

The adoption of e-Court in Indonesia demonstrates a significant shift in how citizens engage with the judicial system. Initial implementation data indicates increasing public acceptance of digital judicial services. However, the implementation reveals tensions between technological innovation and public trust. While e-Court enhances efficiency, challenges persist regarding digital inclusivity and data security. Not all citizens have equal access to technology, potentially creating disparities in access to justice (Sitepu & Hasnda, 2024).

Existing research on judicial digitalization has focused primarily on technological implementation and operational efficiency. Studies have examined the advantages of electronic judicial systems in terms of efficiency, transparency, and accessibility (Procopiuck, 2018; Ahmed et al., 2022; Wang, 2024), but there is a significant gap in understanding how these systems specifically affect public trust in governance institutions. Despite the growing implementation of digital court systems globally, there remains limited scholarly attention on how these technological reforms influence broader governance trust across institutional boundaries. This gap is particularly pronounced in developing countries with diverse socio-

economic conditions like Indonesia, where varied levels of technological access and literacy create complex implementation environments.

This paper examines the relationship between judicial digitalization and public trust in Indonesia through conceptual analysis. The central question is: How does e-Court implementation influence public trust in Indonesia's judiciary? Instead of collecting primary data, this study synthesizes theoretical frameworks on institutional trust and digital governance. It applies these frameworks to Indonesia's e-Court implementation by analyzing secondary data, government reports, and existing research. By developing a comprehensive conceptual framework that links e-Court components with trust dimensions through specific mechanisms, while examining how contextual factors like the digital divide moderate these relationships, this study contributes to both digital governance literature and institutional trust theory. Through critical analysis of Indonesia's experience with e-Court, the paper develops a structured understanding of how judicial digitalization affects public trust, identifying both opportunities and challenges in building trust through technological means.

2. Research Objectives

This research seeks to analyze the dynamics between Indonesia's e-Court system and public trust in the judicial institutions. The specific objectives of this study are:

- 1) To identify connections between digital court features and trust dimensions.
- 2) To understand implementation barriers across diverse contexts.
- 3) To develop implications for judicial modernization policies in developing countries.

3. Research Methodology

This paper employs a systematic conceptual analysis approach to examine the relationship between judicial digitalization and public trust in Indonesia. Unlike empirical studies or systematic reviews, this approach synthesizes theoretical frameworks and applies them to Indonesia's e-Court implementation through secondary data analysis. The study analyzes 42 documents published between 2015-2025, including government documents (n=15), academic publications (n=19), and research reports (n=8). Document selection followed specific criteria: direct relevance to Indonesia's e-Court implementation or theoretical frameworks on institutional trust; credibility of sources with priority given to peer-reviewed publications and official documents; recency (last decade); availability in English or Bahasa Indonesia; and comprehensive coverage of Indonesia's diverse contexts. This focused selection process ensured a balanced dataset capturing both institutional perspectives and critical evaluations.

The analytical process employed thematic analysis through five systematic steps: initial coding of patterns related to e-Court features and trust dimensions; theme development connecting digital court features with trust mechanisms; comparative analysis of implementation variations across different regions; critical examination of contradictions between policy intentions and implementation realities; and framework development synthesizing the identified relationships into a coherent conceptual model. To ensure reliability despite reliance on secondary data, the study employed triangulation by cross-referencing statistical information across multiple sources, comparing official government data with independent research findings, and deliberately examining both supportive and critical

perspectives. While this approach offers structured exploration of how technological innovation in courts might influence public trust through institutional mechanisms, limitations include the exclusive use of secondary data, potential reporting biases in official documents, uneven data availability across regions, limited causal inference capability, and generalizability challenges within Indonesia's diverse governance landscape.

4. Theoretical Framework: Understanding Public Trust in the Judiciary

Public trust in the judiciary represents citizens' collective belief in courts' ability to perform functions effectively, fairly, and in the public interest (Tyler, 2001). Unlike private organizations, courts gain legitimacy through demonstrated competence, procedural fairness, and institutional integrity rather than market performance. When people trust that courts operate transparently and impartially, they more readily accept decisions and comply with laws. This creates a more sustainable governance model than coercive enforcement. Legitimacy-based compliance reduces enforcement costs and strengthens social order by promoting voluntary adherence to legal norms. In Indonesia, trust in the judiciary has fluctuated over time, with recent surveys showing ratings between 71-76% (Indikator Politik Indonesia, 2024; Charta Politika Indonesia, 2022), though the Integrity Assessment Survey indicated a decline from 82.72 in 2021 to 74.03 in 2024 (The Corruption Eradication Commission, 2024).

Four key dimensions shape judicial trust: procedural fairness, transparency, accessibility, and institutional integrity. Procedural fairness encompasses impartiality, equal treatment, and opportunities for voice in legal proceedings. Young (2018) demonstrates that the openness of decision processes, perceived competence of decision-makers, and absence of bribery significantly influence public perceptions of fairness in judicial processes. When citizens believe legal procedures are applied consistently without bias, they are likelier to trust judicial institutions and comply with their decisions, even with unfavorable outcomes. Transparency refers to the visibility of judicial operations, including access to court records and explanations of legal decisions. Grimmelikhuisen and Klijn (2015) found that transparency particularly enhances trust among citizens with moderate judicial familiarity, allowing them to understand better and evaluate court processes. When court proceedings are opaque, citizens may develop suspicions about hidden influences or corruption, undermining institutional legitimacy.

Accessibility concerns the ability to engage with courts without significant barriers. This includes physical access to courts, proceedings affordability, legal assistance availability, and comprehensible legal processes. Cabral et al. (2012) highlight how disparities in access significantly undermine public trust, particularly among disadvantaged communities. When justice is perceived as available only to the wealthy, educated, or politically connected, trust erodes among those who feel excluded. The integrity of judicial actors, including judges and court officials, is crucial in shaping public perceptions. Bühlmann and Kunz (2011) emphasize that allegations of corruption or unethical conduct can severely undermine institutional legitimacy. These actors are entrusted with impartially upholding the rule of law, making their perceived integrity fundamental to public trust in the judicial system.

5. Indonesia's e-Court System: Implementation and Features

Following the theoretical foundation on judicial trust, this section examines Indonesia's specific experience with e-Court implementation. Indonesia's judicial digitalization has evolved through a structured approach outlined in the Supreme Court's Judicial Reform Blueprint 2010-2035. This comprehensive plan established three phases: Electronic Case Reporting (2010-2015), Electronic Case Management (2016-2020), and Online Courts (2021-2025). The e-Court system, formally implemented in 2018 through Supreme Court Regulation Number 3 of 2018, has evolved through subsequent regulations to adapt to emerging needs and technological capabilities (The Supreme Court of the Republic of Indonesia, 2010). This phased approach has allowed for institutional learning and adaptation as the system has expanded and matured over time.

The e-Court system encompasses four integrated components designed to digitalize different aspects of court proceedings. The e-Filing component allows litigants to submit cases and documents online without physical court visits, reducing geographic barriers and processing time. The e-Payment system enables electronic court fee payment through banking partners, standardizing costs and reducing corruption opportunities in financial transactions. The e-Summons feature delivers court notifications through digital channels, improving communication efficiency between courts and parties. The e-Litigation platform, introduced in 2019, enables comprehensive electronic trials for various proceedings, allowing remote participation in hearings and electronic document submission (Putra, 2020). These components combine to create a comprehensive digital court experience that transforms traditional judicial processes.

Adoption trends demonstrate growing acceptance of the e-Court system across Indonesia's judiciary. Statistical data shows e-filing cases increased from 907 (0.14% of total cases) in 2018 to 410,754 (60% of total cases) in 2024. Nearly all e-filed cases proceeded to e-litigation, with 410,738 cases processed through the digital litigation system by 2024 (The Supreme Court of the Republic of Indonesia, 2018-2024). This significant growth indicates increasing institutional capacity and public willingness to engage with digital court processes, though adoption rates vary across different regions and court types. The system operates through centralized data centers with security features including encrypted data transmission, multi-factor authentication, and role-based access controls to protect sensitive legal information while ensuring system reliability across Indonesia's diverse geographical context (Fitri & Taufiqurrahman, 2024).

6. Impact of Digitalization on Judicial Trust

Digital transformation reshapes public trust in judicial institutions through several key mechanisms that address traditional barriers while creating new considerations for building public trust. Digital platforms enhance transparency through real-time information disclosure, open-access legal records, and automated procedures that reduce discretionary power and corruption opportunities (Meijer & Grimmelikhuijsen, 2020). Online access to legal proceedings and digital case tracking eliminates procedural ambiguity and strengthens perceptions of fairness. This transparency reduces information gaps between officials and citizens. It also creates standardized documentation and enables public oversight of judicial processes. Indonesia's Case Tracing Information System exemplifies this by allowing

stakeholders to monitor case progress in real-time, addressing information gaps that traditionally undermined trust in court systems (Herawati et al., 2023).

Digital systems improve operational efficiency through automated workflows that reduce delays and backlogs that traditionally undermine public trust. When cases are resolved through predictable, timely procedures, citizens develop greater trust in the institution's competence and reliability (Cann & Yates, 2020). These efficiency improvements demonstrate institutional competence, enhance procedural fairness through consistent processing times, and increase accountability through measurable performance metrics. Digitalization also enhances accessibility by removing physical and temporal barriers to court engagement. Electronic filing eliminates the need for physical travel to courthouses, virtual hearings enable participation regardless of location, and digital platforms make legal information more widely available to those with technological access.

However, the digital divide presents significant challenges for building inclusive trust through technological means. While digitalization may enhance access for technologically equipped urban populations, it risks creating new barriers for rural communities, elderly citizens, and economically disadvantaged groups with limited digital access or skills (Lindgren et al., 2019). This disparity potentially reinforces existing inequalities in the justice system, undermining trust among already marginalized populations. Digital systems also introduce new concerns about data security, algorithmic bias, and technological governance that must be addressed to maintain public trust. As courts increasingly rely on digital systems, ensuring proper data protection and technological oversight becomes essential for preserving trust in the integrity of judicial processes (Kandeel et al., 2022).

These complex dynamics between trust-enhancing mechanisms and potential barriers suggest that digital transformation's impact on judicial trust is neither straightforward nor uniform across different contexts and populations. To systematically understand these multifaceted relationships, the preceding analysis can be synthesized into an integrated conceptual framework that connects specific e-Court components with trust dimensions. Figure 1 visualizes these relationships, mapping how Indonesia's e-Court system features interact with trust mechanisms and identifying the factors that moderate these interactions.

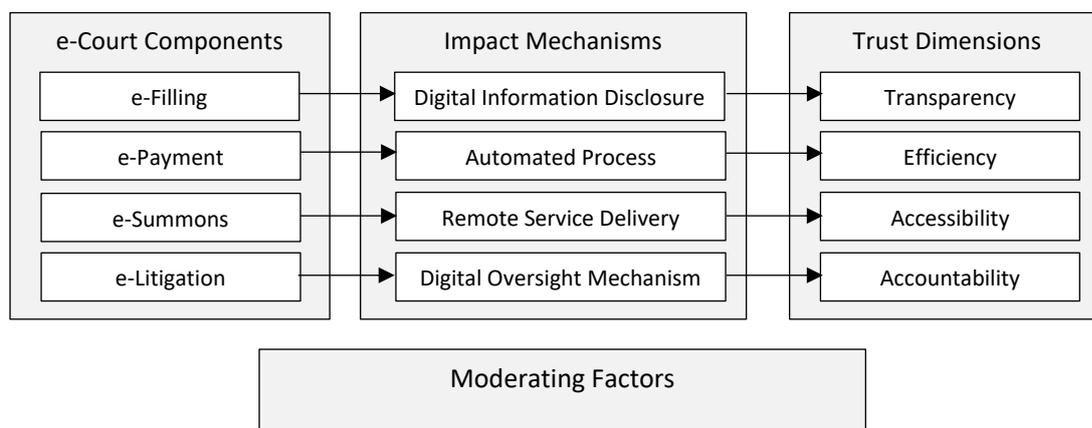


Figure 1 Conceptual Framework for Understanding e-Court's Impact on Public Trust

Source: Author's conceptualization based on synthesis of judicial trust literature and digital governance studies

As shown in this framework, digital court features affect trust through specific pathways. For instance, e-Filing and e-Payment enhance transparency through digital information disclosure and standardized financial procedures. Automated workflows across all components improve efficiency by reducing delays and administrative errors. E-Summons and e-Litigation increase accessibility by enabling remote participation, while comprehensive digital documentation strengthens accountability through enhanced oversight capabilities. However, these trust-building pathways are moderated by factors such as the digital divide, institutional readiness, and data security concerns, potentially creating variations in trust outcomes across different contexts and population segments.

With this conceptual framework as a foundation, the following sections further analyze how these theoretical relationships manifest in practice by examining implementation challenges, evaluating impacts on transparency and efficiency, and developing policy implications. This approach allows for a comprehensive assessment of both achievements and barriers in building public trust through judicial digitalization in Indonesia.

7. Implementation Challenges and Public Perceptions

While the preceding sections outlined the components and theoretical potential of e-Court, practical implementation has faced significant challenges that affect its impact on public trust. The digital divide represents a primary obstacle, with approximately 40% of regions lacking reliable internet infrastructure and 12,000 villages in blank spot areas without adequate connectivity (Barlian et al., 2025). These infrastructure gaps create uneven access to e-Court services, potentially reinforcing existing geographic and socioeconomic disparities. Digital literacy poses another challenge, with approximately 30% of Indonesia's adult population having limited digital skills (Sitepu & Hasnda, 2024). Even when technological infrastructure is available, many citizens with limited education or technological exposure may lack the knowledge and skills to effectively navigate digital platforms, creating barriers to utilizing e-Court services.

Institutional readiness varies significantly across courts, creating inconsistent implementation experiences. Urban courts with better resources and technologically proficient personnel typically show higher adoption rates and more effective utilization of e-Court features. In contrast, courts in less developed regions often struggle with technical expertise gaps, inadequate equipment, and organizational resistance to digital processes (Romdoni et al., 2022). These variations create disparities in how citizens experience the e-Court system depending on their location and the specific courts they interact with, potentially affecting perceptions of fairness and equality in the judicial system.

Public perception studies reveal important concerns alongside generally positive responses. Across implementation sites, data security emerges as a significant issue, with approximately 78% of respondents in Batam expressing concerns about the protection of sensitive legal information in digital systems (Handini et al., 2024). In regions with limited connectivity, concerns about accessibility predominate, with users in Biak Numfor giving lower ratings for system accessibility (4.02 on a 5-point scale) compared to other features (Djamaludin et al., 2023). These findings highlight critical areas requiring attention for e-Court to fully realize its trust-building potential.

It is important to note that existing studies primarily capture the perspectives of those who have successfully accessed e-Court services, potentially overlooking the experiences of

citizens who face barriers to digital engagement. More comprehensive research encompassing diverse stakeholder perspectives, including those with limited technological access or literacy, would provide a more complete understanding of how e-Court implementation affects public trust across different population segments.

The implementation challenges and identified concerns suggest that while e-Court has significant potential to enhance public trust in the judiciary, realizing this potential requires addressing underlying inequalities in technological access and literacy, strengthening institutional capacity across diverse court settings, and resolving concerns about data security and privacy. These factors highlight the importance of a nuanced approach to judicial digitalization that considers the diverse contexts and needs of Indonesia's population.

8. Impact on Public Trust Through Transparency and Efficiency

Having examined the implementation challenges, this section analyzes how e-Court specifically affects public trust through enhanced transparency and efficiency. The e-Court system has significantly enhanced judicial transparency and efficiency, directly addressing key factors influencing public trust. The Case Tracing Information System provides unprecedented visibility into court proceedings, eliminating information asymmetries that previously undermined trust. Prior to digitalization, obtaining case information required physical court visits or connections with officials, creating opportunities for corruption and preferential treatment. The digital system democratizes access to case information for those with internet connectivity, allowing real-time monitoring of proceedings without intermediaries (Herawati et al., 2023). This transparency directly addresses concerns about opacity and hidden influences in the judicial process, creating conditions for enhanced public trust.

Standardizing court fees through e-Payment has enhanced financial transparency by establishing fixed, publicly available fee schedules and processing payments through electronic channels with automatic receipts. Research indicates this has significantly reduced reported irregular payments, addressing a longstanding source of distrust in the judiciary (Santiadi, 2019). Digital documentation of court proceedings through e-Litigation creates comprehensive records of judicial actions, making decisions more transparent and subject to scrutiny. These transparency enhancements directly target corruption perceptions that have traditionally undermined public trust in the judiciary.

Empirical evidence from implementation contexts illustrates how these conceptual mechanisms translate to operational improvements. Table 1 presents data from the Class 1A District Court of Batam, showing significant efficiency gains following e-Court implementation.

Table 1 Impact of e-Court on Judicial Efficiency Metrics in Batam Court

Efficiency Indicator	Pre-e-Court	Post-e-Court	Change
Case registration time	3 hours	1 hour	-67%
Monthly case capacity	150 cases	200 cases	+33%
Administrative errors	15 per month	5 per month	-67%

Source: Handini et al. (2024)

While the Batam implementation represents a specific urban context with relatively strong infrastructure and cannot be generalized to all Indonesian courts, similar patterns emerge

from other implementation sites. Batam's position as an economic hub with rapid growth and higher-than-average technology infrastructure makes it an early adopter case that offers valuable insights but may not represent typical implementation conditions across Indonesia's diverse regions. The context of Batam, with its status as a special economic zone, proximity to Singapore, and relatively high digital literacy, creates implementation conditions that differ substantially from rural or less-developed areas where infrastructure limitations and digital literacy barriers are more pronounced

In contrast, Djamaludin et al. (2023) studied Biak Numfor, a remote area in Eastern Indonesia. This study offers insights into e-Court implementation in challenging conditions. Biak Numfor faces several limitations: inadequate personnel for public services, low digital literacy, language barriers, and significant infrastructure deficits. Despite these obstacles, research in Biak Numfor found compelling statistical evidence of improved efficiency despite more challenging infrastructure conditions. Regression analysis yielded a coefficient of 12.340 ($p < 0.001$), indicating that for each unit increase in e-Court implementation, there was a substantial 12.34-point improvement in judicial efficiency scores, which indicates a relationship strong enough that there is less than a 0.1% probability this occurred by chance. Additionally, correlation analysis showed a positive relationship ($r = 0.5$, $p < 0.05$) between e-Court utilization and efficiency metrics, meaning that as e-Court usage increased, efficiency consistently improved with a moderate to strong association strength of 0.5 on a scale where 0 represents no relationship and 1 represents perfect correlation.

These findings from contrasting implementation environments are further supported by nationwide adoption trends. Supreme Court records show growth in e-filing from 907 cases (0.14% of total) in 2018 to 410,754 cases (60% of total) in 2024 (Supreme Court, 2018-2024), indicating increasing institutional adoption of digital processes across diverse contexts.

User satisfaction data suggests these operational improvements translate to enhanced trust perceptions. Across implementation sites, users report high satisfaction with system transparency, with ratings of 4.19 on a 5-point scale in Biak Numfor (Djamaludin et al., 2023) and 78% of Batam users believing the system reduces corruption opportunities (Handini et al., 2024). The consistency of positive perceptions across different implementation contexts supports the conceptual link between digitalization and enhanced transparency and efficiency.

These improvements directly address procedural concerns that traditionally undermine public trust in court competence. When court processes are slow, unpredictable, or opaque, citizens often develop perceptions that the system is incompetent or biased. By establishing predictable timelines, efficient processes, and transparent operations, e-Court can dispel these negative perceptions and strengthen trust in the judiciary's ability to fulfill its core functions effectively.

It is important to acknowledge that while the empirical illustrations demonstrate e-Court's positive impact on transparency and efficiency across diverse contexts, the magnitude of improvement varies based on local implementation conditions. The contrasting experiences of Batam and Biak Numfor suggest that while e-Court implementation can yield significant efficiency improvements across diverse contexts, the specific manifestations of these improvements vary based on local conditions. Rather than suggesting uniform outcomes across Indonesia's judicial landscape, these findings illustrate how digital transformation can enhance trust-building mechanisms when appropriately adapted to local contexts. This nuanced understanding is essential for developing realistic implementation strategies across Indonesia's

heterogeneous governance landscape and offers more valuable insights for policy development than would an oversimplified generalization.

9. Accessibility Challenges and Policy Implications

Building on the implementation challenges identified in Section 7, this section examines policy implications for addressing the tension between enhanced digital access and persistent technological barriers. While e-Court has removed physical and temporal barriers for citizens with technological resources, the previously noted infrastructure gaps create disparities in justice access where technologically equipped citizens enjoy enhanced services while others depend on traditional processes. The Supreme Court has implemented several initiatives to address these challenges, including court-based assistance programs, continued mobile court services in remote areas, and educational campaigns. Despite these efforts, the digital divide remains a significant obstacle to building inclusive trust through e-Court.

Policy approaches must balance technological innovation with inclusive access to ensure e-Court's trust-building benefits extend to all segments of society. For infrastructure development, telecommunications bodies and judicial authorities should collaborate to expand connectivity in underserved regions, particularly in blank spot areas. A phased implementation approach should prioritize areas with active court facilities for maximum impact. Judicial authorities should establish digital service hubs in district courts serving underconnected regions. Meanwhile, regional governments should create community access points in areas with limited individual connectivity.

Digital inclusion strategies represent a second key policy dimension. The judiciary should consider maintaining complementary service models in regions with lower digital literacy rates, where traditional court services would continue alongside digital platforms. Legal aid organizations and professional associations have important roles in developing training programs for vulnerable populations who face greater barriers to technological adoption. The existing mobile court programs could evolve toward hybrid models that strategically incorporate digital documentation within traditional outreach services, particularly in regions where geographical and infrastructural challenges persist.

Data security and privacy enhancements constitute a third essential policy area, addressing the concerns expressed by approximately 78% of users in implementation studies. Judicial authorities, in coordination with national cybersecurity bodies, should establish comprehensive data protection standards specifically designed for sensitive judicial information. Technical security measures, including enhanced encryption, authentication protocols, and robust backup systems, would benefit from phased implementation to ensure seamless integration with existing judicial processes. Clear communication about data handling practices within the e-Court platform itself could help address user concerns about information security.

Institutional capacity building forms the foundation for sustainable implementation. Judicial training institutions should develop differentiated digital literacy programs for various court roles, recognizing the distinct needs of judges, clerks, and administrative personnel. Change management approaches should include targeted interventions for courts with lower adoption rates, potentially utilizing knowledge transfer from successful implementation sites. Financial planning authorities should consider longer-term funding models that recognize

digital transformation as an ongoing process rather than a one-time investment, ensuring sustainability beyond initial implementation phases.

Implementation of these recommendations requires coordinated action across multiple stakeholders, including the Supreme Court, regional judiciaries, telecommunications agencies, and civil society organizations. By addressing both technological and institutional dimensions of digital court implementation, policymakers can maximize the trust-building potential of e-Court while mitigating the risk of creating new disparities in access to justice. The statistical evidence showing varying degrees of improvement across different implementation contexts underscores the importance of adaptive approaches that respond to local conditions while pursuing the broader goal of enhanced judicial trust through digital transformation.

While addressing current implementation challenges, policymakers must also anticipate emerging technological developments that will shape the future of Indonesia's e-Court system. The Supreme Court has already begun implementing artificial intelligence for judicial panel assignments in cassation cases, signaling an important direction in judicial digitalization. As AI applications potentially expand to document analysis, case classification, and decision support, new policy considerations emerge regarding algorithmic transparency, potential bias, and maintaining appropriate human oversight in judicial processes. These technological advancements risk creating additional layers of complexity in the accessibility landscape, potentially widening the gap between technologically equipped urban courts and under-resourced rural institutions. Future policy frameworks must therefore integrate AI governance principles alongside digital inclusion strategies to ensure these advanced technologies enhance rather than undermine judicial trust across Indonesia's diverse contexts.

Beyond these specific policy approaches and technological considerations, a deeper conceptual understanding is needed to fully address the complex dynamics at play. The analysis in this study reveals a fundamental paradox in judicial digitalization efforts within developing contexts like Indonesia. The analysis in this study reveals a fundamental paradox in judicial digitalization efforts within developing contexts like Indonesia. On one hand, digital court systems enhance transparency and efficiency through automated processes and standardized procedures, creating trust-enhancing effects particularly for those with technological access. On the other hand, these same digital systems risk creating or reinforcing inequalities in access to justice through the digital divide, potentially undermining trust among already marginalized populations. This paradoxical dynamic suggests that judicial digitalization's impact on public trust is not uniform but highly context-dependent, creating what might be described as parallel "trust zones" in which digital features either enhance or potentially undermine trust depending on users' socioeconomic conditions, geographic locations, and technological access.

This paradox is particularly evident when comparing implementation experiences between urban centers like Batam with relatively advanced infrastructure and remote areas like Biak Numfor with more significant connectivity challenges. While both contexts show efficiency improvements, the magnitude and accessibility of these benefits vary substantially. The emergence of hybrid approaches that combine digital innovation with traditional service channels appears to offer the most promising path forward for addressing this paradox, allowing judicial institutions to harness technology's trust-enhancing potential while mitigating its potential exclusionary effects. This understanding can be visualized in "The Judicial Digitalization Trust Paradox Model" presented in Figure 2.

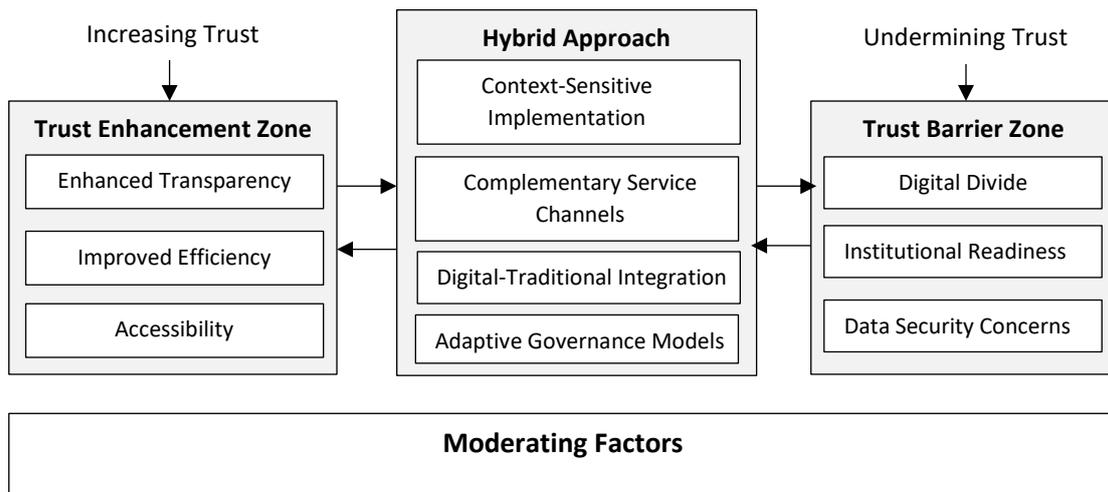


Figure 2 The Judicial Digitalization Trust Paradox Model

Source: Author's conceptualization based on analysis of e-Court implementation in Indonesia

As illustrated in the model, there exists a "Trust Enhancement Zone" where digital features improve transparency and efficiency, and a "Trust Barrier Zone" where the same digital systems create obstacles through infrastructure limitations, institutional readiness variations, and data security concerns. Between these zones, a "Hybrid Approach" emerges as the most effective strategy, integrating both digital and traditional channels while maintaining context-sensitivity. This understanding provides a foundation for both theoretical advancement in institutional trust literature and practical governance innovations that can more effectively navigate the complex relationship between technological modernization and public trust.

This conceptual framework reinforces the importance of the balanced policy approaches discussed earlier, highlighting why addressing both technological innovation and inclusive access is essential for judicial digitalization to enhance rather than undermine public trust across Indonesia's diverse social landscape.

10. Conclusion

The implementation of e-Court in Indonesia represents a significant advancement in judicial modernization with profound implications for public trust. The analysis reveals how digital transformation has enhanced transparency in court operations through unprecedented access to case information, standardized fee structures, and comprehensive digital documentation. These transparency improvements directly address traditional concerns about opacity and corruption in the judicial system. Simultaneously, efficiency gains demonstrated across implementation contexts through reduced processing times, expanded case handling capacity, and decreased administrative errors have strengthened perceptions of institutional competence and reliability. The identified pathways through which e-Court influences trust, namely enhanced operational transparency, improved judicial efficiency, increased accessibility, and strengthened accountability, illuminate the complex relationship between technological innovation and public confidence in judicial institutions across diverse Indonesian contexts. As demonstrated by the judicial digitalization trust paradox model, these benefits coexist with potential barriers in a dynamic tension that requires careful navigation.

Despite these promising developments, significant challenges persist. Strategic policy approaches are needed to address these issues. The digital divide, varying institutional readiness, and data security concerns all require balanced interventions. These should combine technological innovation with inclusive access mechanisms. The findings underscore the importance of context-sensitive implementation strategies that respond to local conditions while building judicial trust through both digital and complementary traditional channels. This nuanced understanding of how digital court systems simultaneously enhance transparency and efficiency while potentially creating access disparities offers valuable insights for judicial modernization policies in developing countries. By implementing the recommended policy approaches addressing both technological and institutional dimensions, Indonesia can maximize e-Court's trust-building potential while ensuring equitable access to justice across its diverse society.

11. Limitations and Future Research Recommendations

This study has limitations in analyzing e-Court's impact on public trust. It primarily relies on secondary data without directly measuring public perceptions across diverse demographic groups. Future research should address this by conducting empirical studies that directly measure public trust before and after e-Court implementation, employing mixed-method approaches that would provide a more nuanced understanding of how digital transformation affects trust across Indonesia's diverse population.

12. New Knowledge

This conceptual analysis contributes to the literature on judicial digitalization and public trust in three significant ways. First, it provides an integrated framework showing how digital transformation influences public trust through four interconnected pathways: operational transparency, judicial efficiency, accessibility, and accountability, advancing beyond previous studies that examined these elements in isolation. The framework visualizes how e-Court components interact with trust dimensions through specific mechanisms, while highlighting moderating factors that affect this relationship. Second, it uncovers the inherent paradox in digital court implementation within developing contexts like Indonesia, where the same technological systems that enhance trust through improved transparency simultaneously risk creating trust disparities through digital divide effects. The judicial digitalization trust paradox model illustrates this tension between trust enhancement and trust barriers, with hybrid approaches emerging as a potential resolution. Third, it demonstrates the importance of complementary approaches in judicial digitalization, suggesting that hybrid service models combining digital and traditional channels may maximize trust benefits across diverse populations.

These contributions challenge simplistic technological determinism in judicial reform discourse and provide a nuanced understanding of how digital courts affect public trust in complex social contexts. Through both conceptual frameworks and visual models, this study offers scholars and policymakers theoretical and practical insights for navigating the complex relationship between technological innovation and public trust in governance institutions, particularly in developing countries with diverse socio-economic conditions.

13. Acknowledgment

The researcher sincerely appreciates Khon Kaen University, Thailand, for providing the ASEAN GMS Scholarship, which supported this research. The financial assistance and academic resources offered have greatly contributed to the successful completion of this study.

14. References

- Ahmed, R.K., Ahmed, O., Pappel, I., Reitsakas, A., & Draheim, D. (2022). The Role of Digital Transformation in Fostering Transparency: An e-Court System Case Study. In: Papagiannidis, S., Alamanos, E., Gupta, S., Dwivedi, Y.K., Mäntymäki, M., Pappas, I.O. (eds), *The Role of Digital Technologies in Shaping the Post-Pandemic World*. Springer. 219-230. https://doi.org/10.1007/978-3-031-15342-6_17
- Barlian, A. A. E., Latipulhayat, A., Rusmiati, E., Wulandari, W., & Sukma, A. N. A. (2025). Electronic Criminal Justice in Indonesia: Challenges and the Future Measures. *Jambura Law Review*, 7(1), 243-274. <https://doi.org/10.33756/jlr.v7i1.27805>
- Bühlmann, M., & Kunz, R. (2011). Confidence in the judiciary: Comparing the independence and legitimacy of judicial systems. *West European Politics*, 34(2), 317-345. <https://doi.org/10.1080/01402382.2011.546576>
- Cabral, J., Chavan, A., Clarke, T., Greacen, J., Hough, B., Rexer, L., Ribadeneyra, J. & Zorza, R. (2012). Using Technology to Enhance Access to Justice. *Harvard Journal of Law & Technology*, 26(1), 243-323. <https://jolt.law.harvard.edu/articles/pdf/v26/26HarvJLTech241.pdf>
- Cann, D. M., & Yates, J. L. (2020). This side of the law: Evaluating citizens' attitudes toward legal compliance. *Justice System Journal*, 41(3), 244-258. <https://doi.org/10.1080/0098261X.2020.1768184>
- Charta Politika Indonesia. (2022). Catatan Akhir Tahun: Tren Persepsi Publik Dan Proyeksi Politik Menuju 2024. Retrieved March 3, 2025, from https://www.chartapolitika.com/wp-content/uploads/2022/12/20221222_Rilis_SurNas_Charta_.pdf
- Cordella, A., & Contini, F. (2020). Digital technologies for better justice: A toolkit for action. Inter-American Development Bank. <https://doi.org/10.18235/0002297>
- Djamaludin, Aziz, M. F., Ar-Rasyid, Y., & As-Sayyis, I.A. (2023). Assessing the impact of electronic court systems on the efficiency of judicial processes in the era of digital transformation. *Volkgeist: Jurnal Ilmu Hukum Dan Konstitusi*, 6(1), 1–18. <https://doi.org/10.24090/volkgeist.v6i1.8082>
- Fitri, A. A., & Taufiqurrahman, R. A. (2024). The use of artificial intelligence in assigning and appointing judicial panels in Indonesian courts. *Pena Justisia: Media Komunikasi dan Kajian Hukum*, 23(3), 1-14. <https://doi.org/10.31941/pj.v23i3.5162>
- Grimmelikhuijsen, S. & Klijn, A. (2015). The effects of judicial transparency on public trust: evidence from a field experiment. *Public Admin*, 93, 995-1011. <https://doi.org/10.1111/padm.12149>
- Handini, V., Salsabila, L., Lodan, K. T., & Dompok, T. (2024). Optimizing public service quality through the implementation of the e-court application in Class 1A District Court of Batam city. *Proceeding of the International Conference on Social Sciences and*

- Humanities Innovation, 1(2), 72–80. <https://prosiding.appisi.or.id/index.php/ICSSHI/article/view/28>
- Herawati, A. R., Widowati, N., & ., Measaroh. (2023). Dynamics of public service digitization study on Case Tracing Information System (SIPP) in court. *KnE Social Sciences*, 8(11), 494–502. <https://doi.org/10.18502/kss.v8i11.13568>
- Indikator Politik Indonesia. (2024). Persepsi publik atas penegakan hukum, sengketa pilpres di MK, dan isu-isu terkini pasca-pilpres. Retrieved March 3, 2025, from <https://indikator.co.id/wp-content/uploads/2024/04/RILIS-INDIKATOR-21-APRIL-2024.pdf>
- Kandeel, M. E., Kameel, T. A. R. & Alkrisheh, M. A. (2022). Information Privacy Protection during Remote Trials [Conference Paper]. 2022 International Arab Conference on Information Technology (ACIT), Abu Dhabi, United Arab Emirates, 1-8. <https://doi.org/10.1109/ACIT57182.2022.9994174>
- Kharlie, A.T., & Cholil, A. (2020). E-Court and e-litigation: The new face of civil court practices in Indonesia. *International Journal of Advanced Science and Technology*, 29(2), 2206-2213. <http://repository.uinjkt.ac.id/dspace/handle/123456789/50829>
- Laksito, F.X. H. B., Handayani, I. G. A. K., Waluyo. (2024). E-Court: The impact of technology and information development in Indonesian laws and regulations. In A. K. Jaelani et al. (eds.). *Proceedings of the International Conference on Cultural Policy and Sustainable Development (ICPSD 2024)*, *Advances in Social Science, Education and Humanities Research* 869, 136-144. https://doi.org/10.2991/978-2-38476-315-3_20
- Lindgren, I., Madsen, C. Ø., Hofmann, S., & Melin, U. (2019). Close encounters of the digital kind: A research agenda for the digitalization of public services. *Government Information Quarterly*, 36(3), 427-436. <https://doi.org/10.1016/j.giq.2019.03.002>
- Meijer, A. & Grimmelikhuijsen, S. (2020). Responsible and accountable algorithmization: How to generate citizen trust in governmental usage of algorithms. In: Schuilenburg, M., & Peeters, R. (Eds.). *The Algorithmic Society: Technology, Power, and Knowledge* (1st ed.). Routledge, 53-66. <https://doi.org/10.4324/9780429261404>
- Procopiuck, M. (2018). Information technology and time of judgment in specialized courts: What is the impact of changing from physical to electronic processing?, *Government Information Quarterly*, 35(3), 491-501. <https://doi.org/10.1016/j.giq.2018.03.005>
- Putra, D. (2020). A modern judicial system in Indonesia: Legal breakthrough of e-court and e-legal proceeding. *Jurnal Hukum dan Peradilan*, 9(2), 275-297. <https://doi.org/10.25216/jhp.9.2.2020.275-297>
- Romdoni, M., Lussak, A., & Darmawan, I. (2022). Success Factors for Using E-Court in Indonesian Courts. *Proceedings*, 82(1), 58-67. <https://doi.org/10.3390/proceedings2022082058>
- Santiadi, K. (2019). Expanding access to justice through e-court in Indonesia. *Prophetic Law Review*, 1(1), 75-89. <https://doi.org/10.20885/PLR.vol1.iss1.art5>
- Sitepu, R. I., & Hasnda, N. A. (2024). Analysis of the implementation of e-litigation with artificial intelligence approach in procedural justice and access to justice in pretrial proceedings. *Perspektif Hukum*, 24(1), 45-71. <https://doi.org/10.30649/ph.v24i1.275>
- The Corruption Eradication Commission of the Republic of Indonesia. Integrity Assessment Survey. Retrieved March 3, 2025, from <https://jaga.id/jendela-pencegahan/spi?vnk=357fae33>

- The Directorate General of the General Judiciary. (2015). Roadmap Rencana Pengembangan Sistem Penelusuran Informasi Perkara Mahkamah Agung Republik Indonesia Tahun 2015-2019. https://badilum.mahkamahagung.go.id/index.php?option=com_attachments&task=download&id=125
- The Supreme Court of the Republic of Indonesia. (2010). Cetak Biru Pembaruan Peradilan 2010-2035. <https://www.mahkamahagung.go.id/media/198>
- The Supreme Court of the Republic of Indonesia. (2018-2023). Laporan Tahunan Mahkamah Agung Republik Indonesia. https://kepaniteraan.mahkamahagung.go.id/images/laporan_tahunan/
- The Supreme Court of the Republic of Indonesia. (2024). Laporan Tahunan 2023 Mahkamah Agung Republik Indonesia. https://kepaniteraan.mahkamahagung.go.id/images/laporan_tahunan/FA_RI_NGKASAN_EKSEKUTIF_2023-EN-low.pdf
- The Supreme Court of the Republic of Indonesia. (2025). Laporan Tahunan 2024 Mahkamah Agung Republik Indonesia. https://kepaniteraan.mahkamahagung.go.id/images/laporan_tahunan/laptah2024/ringkasan_eksekutif_laptah_2024_english.pdf
- Tyler, T. R. (2001). Public trust and confidence in legal authorities: What do majority and minority group members want from the law and legal institutions? *Behavioral Sciences & the Law*, 19(2), 215-235. <https://doi.org/10.1002/bsl.438>
- Wang, L. (2024). Application of information technology in judicial field: The development model of online litigation in China. *Computer Law & Security Review*, 52, 1-7 <https://doi.org/10.1016/j.clsr.2024.105936>
- Waseda University. (2023). 18th Waseda-IAC World Digital Government Ranking 2023. https://idg-waseda.jp/pdf/2023_Digital_Government_Ranking_Report.pdf
- Young, K. A., & Hassan, S. (2020). How procedural experiences shape citizens' perceptions of and orientations toward legal institutions: evidence from a household survey in Bangladesh. *International Review of Administrative Sciences*, 86(2), 278-294. <https://doi.org/10.1177/0020852318768097>