

Digital Trade and Cross-Border Economic Transformation in the Digital Economy

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ABSTRACT

The rapid expansion of digital economies has significantly transformed international trade systems, cross-border commercial interaction, and globally integrated marketplace participation within contemporary economic environments. Digital technologies increasingly influence how enterprises, consumers, and institutions engage in digitally mediated commerce, platform-based transactions, and internationally connected trade systems. The findings indicate that digital trade contributes positively to global economic integration, cross-border e-commerce expansion, platform-mediated commercial coordination, and internationally connected market participation. In addition, digitally integrated trade systems support enterprise transformation, trade efficiency improvement, and digitally coordinated commercial ecosystems within global digital economies. However, the review also identifies significant capability and governance challenges affecting inclusive participation within digital trade systems, including unequal infrastructure readiness, regulatory fragmentation, digital capability disparities, and participation inequality across economies and enterprises.

Keywords: *Cross-Border Commerce, Digital Economy, Digital Trade, Global Economic Integration, Platform Economy.*

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1. | INTRODUCTION

The rapid expansion of digital economies has significantly transformed international trade systems, commercial interaction patterns, and cross-border economic participation within contemporary global markets. Digital technologies increasingly influence how economic actors conduct trade activities, access international marketplaces, coordinate commercial transactions, and integrate into digitally connected economic environments. The emergence of digitally integrated trade systems has accelerated the development of cross-border e-commerce, platform-mediated commercial activities, and data-driven international market coordination. Peters (2023) explains that digital trade has become an important component of contemporary economic transformation because digitally connected commercial systems increasingly influence global economic integration and international trade governance. Similarly, González and Ferencz (2018) argue that digital trade contributes significantly to market openness and international economic participation by enabling digitally mediated commercial interaction across national boundaries. These developments indicate that digital economies increasingly reshape the structure and operational dynamics of global trade systems. Consequently, digital trade has become a strategic component of economic modernization and cross-border commercial transformation within contemporary digital economies.

The growing integration of digital technologies within international trade systems has intensified the expansion of cross-border e-commerce and platform-based commercial ecosystems. Digital platforms increasingly function as intermediaries connecting consumers, enterprises, and international markets through technologically integrated trade systems and digitally coordinated commercial activities. Chen et al. (2023) emphasize that cross-border e-commerce increasingly influences consumer behavior, international purchasing systems, and digital commercial interaction within global markets. Similarly, Wang et al. (2023) identify consumer perception and platform trust as important determinants influencing participation within cross-border e-commerce environments. In addition, Yang et al. (2023) explain that digital platforms significantly influence enterprise transformation and commercial performance through digitally integrated trade coordination and data-driven operational systems. These findings demonstrate that platform-mediated commerce increasingly shapes international economic participation and digitally connected trade ecosystems. Therefore, cross-border digital commerce increasingly functions as an important driver of global economic integration within digitally evolving economies.

The literature further demonstrates that platform globalization and digitally integrated commercial systems increasingly transform the structure of international trade and global market participation. Stallkamp and Schotter (2021) argue that digital platform firms increasingly operate across borders through globally connected commercial ecosystems and platform-based internationalization strategies. Similarly, Azmeh et al. (2020) emphasize that global trade systems increasingly adapt to digitally

integrated commerce and evolving international digital trade regimes. In addition, Fan (2021) highlights that digital economy development significantly influences international trade efficiency and trade uncertainty within technologically evolving economic environments. These developments indicate that digital economies increasingly reshape global market coordination through digitally integrated trade systems and platform-driven international commercial expansion. Consequently, digital platform globalization has become closely associated with broader economic integration and cross-border trade transformation within contemporary digital economies.

Another important issue emerging within the literature concerns the growing importance of digital infrastructure and trade readiness in supporting international digital participation. Participation in digital trade increasingly depends on technological connectivity, digital infrastructure quality, and institutional readiness capable of supporting cross-border economic interaction. Philipp (2020) explains that digital readiness significantly influences the development of digitally integrated trade infrastructure and smart logistical systems within modern commercial environments. Similarly, Quimba et al. (2021) emphasize that readiness for digital trade integration depends heavily on infrastructure capability, connectivity systems, and institutional preparedness. Furthermore, Murthy et al. (2021) identify persistent digital divides affecting participation capability and economic integration within global digital economies. These findings indicate that digital trade participation increasingly requires adaptive infrastructure systems and digitally connected operational capability. Therefore, digital infrastructure readiness has become an important determinant of participation within international digital trade systems.

The literature also identifies governance adaptation and regulatory coordination as critical factors influencing the effectiveness of cross-border digital trade systems. The expansion of digital commerce increasingly requires institutional frameworks capable of managing cross-border data flows, platform coordination, digital transactions, and internationally integrated regulatory systems. Meltzer (2019) emphasizes that governing digital trade requires adaptive policy systems capable of balancing market openness, technological innovation, and regulatory coordination within global digital economies. Similarly, Ahmed (2019) argues that cross-border regulatory cooperation is increasingly important for supporting digitally integrated commercial systems and reducing international trade fragmentation. In addition, Mitchell and Mishra (2019) explain that cross-border data governance increasingly influences the effectiveness of digital trade participation and international economic coordination. These findings indicate that digital trade transformation depends not only on technological integration but also on governance capability and internationally coordinated regulatory adaptation. Consequently, institutional readiness increasingly functions as a strategic requirement for sustainable cross-border digital trade systems.

Despite the opportunities associated with digital trade expansion, recent studies consistently identify substantial capability disparities and inclusion challenges affecting equitable participation within global digital economies. Access to digital technologies alone does not guarantee successful trade participation because digital capability, infrastructure readiness, and institutional adaptation strongly influence participation outcomes across regions and economic actors. Callo-Müller and Kugler (2023) argue that digital trade transformation may reinforce inequality when digitally connected economic systems disproportionately benefit technologically advanced economies and firms with stronger digital capability. Similarly, González (2019) highlights that many MSMEs continue to experience barriers limiting participation within digital trade ecosystems because of capability constraints and limited access to digitally integrated trade systems. Furthermore, Heeks (2022) emphasizes that unequal digital incorporation may reinforce broader socio-economic inequalities within technologically evolving economic environments. These findings indicate that digital trade expansion may simultaneously create opportunities for global economic integration while reinforcing capability disparities and unequal participation outcomes across digital economies. Consequently, inclusive digital trade capability increasingly becomes essential for equitable cross-border economic transformation.

Although discussions regarding digital trade and cross-border commerce continue to expand rapidly, existing studies frequently examine digital trade systems, infrastructure readiness, governance adaptation, and platform globalization separately rather than synthesizing these dimensions within a broader digital economic transformation perspective. Many studies focus primarily on technological connectivity and commercial efficiency while giving less attention to the interconnected relationship between governance capability, infrastructure readiness, digital competitiveness, and equitable participation within international digital trade systems. This creates fragmented understanding regarding how digital economies simultaneously support cross-border economic integration while generating capability disparities and uneven global participation outcomes. Consequently, there remains a need for a more integrated synthesis of the literature examining the relationship between digital trade, cross-border commerce, governance adaptation, infrastructure readiness, and inclusive economic participation within global digital economies.

Based on these considerations, this study aims to systematically review the literature on digital trade and cross-border economic transformation using a qualitative Systematic Literature Review (SLR) approach. The study focuses on analyzing how digital economies influence global trade integration, cross-border commercial systems, infrastructure readiness, governance adaptation, and digitally mediated international economic participation. In addition, the review examines capability and inclusion challenges associated with digital trade transformation, including unequal infrastructure readiness, regulatory fragmentation, participation disparities, and digitally mediated trade inequality. Snyder (2019) explains that systematic literature reviews support conceptual integration and theoretical development within complex research domains.

Furthermore, Page et al. (2021) emphasize that PRISMA-based methodologies improve transparency and rigor within evidence synthesis processes. Through thematic synthesis, this study seeks to provide a more comprehensive understanding of how digital trade reshapes cross-border economic transformation and global participation systems within the contemporary digital economy.

2. | LITERATURE REVIEW

Digital Trade and Global Economic Integration

Digital trade has emerged as an increasingly important component of global economic transformation within contemporary digital economies. Digital trade refers to commercial activities involving digitally enabled transactions, cross-border data flows, digitally mediated services, and platform-based international commerce operating across interconnected global markets. Peters (2023) explains that digital trade increasingly reshapes international economic interaction through digitally integrated commercial systems and evolving digital trade agreements. Similarly, González and Ferencz (2018) emphasize that digital trade contributes significantly to market openness and global economic integration by reducing transactional barriers and facilitating digitally connected commercial participation. These developments demonstrate that digital economies increasingly influence the structure and operational dynamics of international trade systems. Consequently, digital trade has become a strategic mechanism supporting global economic integration and digitally mediated commercial modernization within contemporary economic environments.

The literature further demonstrates that digital trade transformation increasingly influences international trade efficiency and economic coordination across technologically connected markets. Li and Zhang (2022) argue that digital economy development significantly supports the modernization of trade systems through digitally integrated commercial capability and cross-border connectivity enhancement. Similarly, Fan (2021) identifies digital economy development as an important factor influencing international trade efficiency and trade uncertainty management within technologically evolving economies. These findings indicate that digital trade increasingly contributes to broader economic modernization processes and digitally coordinated international market systems. Therefore, global digital economic integration increasingly depends on adaptive trade capability, digitally connected operational systems, and internationally integrated commercial infrastructure.

Cross-Border E-Commerce and Platform Commerce

Cross-border e-commerce has become one of the most rapidly expanding dimensions of contemporary digital trade systems. Digital platforms increasingly connect consumers, enterprises, and international markets through technologically integrated commercial ecosystems and digitally coordinated marketplace systems. Chen et al. (2023) explain that cross-border e-commerce significantly influences consumer

behavior and international purchasing patterns within digitally integrated commercial environments. Similarly, Wang et al. (2023) identify consumer trust and platform perception as important determinants influencing participation within cross-border digital commerce systems. These findings demonstrate that digitally mediated commercial interaction increasingly shapes consumer participation and international marketplace coordination. Consequently, cross-border e-commerce increasingly functions as a major driver of digitally integrated international trade systems.

The literature also highlights the growing importance of platform-based commerce within global digital economies. Zhou (2019) argues that e-commerce platforms significantly support international trade participation by facilitating digitally integrated commercial transactions and cross-border market access. Similarly, Yang et al. (2023) emphasize that digital platforms positively influence enterprise transformation and commercial performance through data-driven operational systems and digitally coordinated trade ecosystems. These developments indicate that digital platforms increasingly function as strategic intermediaries connecting enterprises and consumers across global digital markets. Therefore, platform-mediated commerce has become closely associated with international digital trade expansion and cross-border economic transformation within contemporary digital economies.

Digital Infrastructure and Trade Readiness

Digital infrastructure and technological readiness increasingly influence participation capability within global digital trade systems. Participation in digitally integrated commerce requires adequate technological connectivity, digital operational systems, and infrastructure capability capable of supporting cross-border economic interaction. Philipp (2020) explains that digital readiness significantly influences the development of technologically integrated trade systems and digitally coordinated logistical environments. Similarly, Quimba et al. (2021) emphasize that readiness for digital trade integration depends heavily on infrastructure capability, connectivity quality, and institutional preparedness. These findings indicate that digital trade participation increasingly requires adaptive infrastructure systems and digitally connected operational capability. Consequently, infrastructure readiness has become an important determinant of international digital economic participation.

The literature further demonstrates that unequal digital infrastructure and technological capability continue to affect global trade participation outcomes. Murthy et al. (2021) identify persistent digital divides influencing participation opportunities and integration capability within global digital economies. Economies characterized by stronger technological infrastructure and higher digital readiness are generally more capable of participating effectively within international digital trade systems than environments with limited connectivity and weaker technological capability. These developments suggest that digital trade transformation may simultaneously expand international economic participation while reinforcing unequal trade capability across

regions and economic actors. Therefore, digitally integrated trade participation increasingly depends on infrastructure readiness and technological adaptability within contemporary economic systems.

Trade Governance and Regulatory Adaptation

Trade governance and regulatory coordination increasingly play important roles in supporting sustainable cross-border digital trade systems. The expansion of digital commerce requires institutional frameworks capable of regulating cross-border transactions, digital commercial systems, data flows, and platform-mediated economic interaction within globally integrated trade environments. Meltzer (2019) argues that digital trade governance requires adaptive policy systems capable of balancing technological innovation, regulatory coordination, and market openness within global digital economies. Similarly, Ahmed (2019) emphasizes that cross-border regulatory cooperation is increasingly necessary for supporting digitally integrated trade systems and reducing regulatory fragmentation. These findings indicate that governance adaptation increasingly becomes essential for maintaining effective cross-border digital trade participation.

The literature also highlights the growing importance of cross-border data governance and internationally coordinated digital regulation. Mitchell and Mishra (2019) explain that cross-border data flows significantly influence international trade effectiveness and digitally connected commercial coordination. Similarly, Suh and Roh (2023) identify digital trade policies as important determinants influencing digital trade performance and global commercial participation. These developments indicate that digitally integrated trade systems increasingly depend on coordinated governance capability and internationally adaptive regulatory frameworks. Therefore, regulatory adaptation increasingly functions as a strategic requirement for sustainable digital trade transformation within contemporary global economies.

Inclusive Sustainability and Environmental Resilience

Despite the opportunities associated with digital trade expansion, the literature consistently identifies substantial capability disparities and unequal participation challenges affecting inclusive digital trade systems. Access to digital technologies alone does not ensure equal participation within global digital economies because infrastructure capability, institutional readiness, and digital competence strongly influence trade participation outcomes. Callo-Müller and Kugler (2023) argue that digital trade transformation may reinforce inequality when technologically advanced economies and digitally capable firms disproportionately benefit from global digital integration. Similarly, González (2019) emphasizes that many MSMEs continue to experience barriers limiting participation within digital trade systems because of capability constraints and limited digital infrastructure access. These findings indicate

that digital trade expansion may simultaneously create opportunities for economic integration while reinforcing unequal participation outcomes across digital economies.

The literature further demonstrates that capability disparities increasingly affect long-term competitiveness and inclusive participation within digitally integrated trade systems. Heeks (2022) explains that unequal digital incorporation may reinforce broader socio-economic disparities within technologically evolving environments. Economies and enterprises characterized by stronger digital capability and adaptive readiness are generally more capable of integrating into cross-border digital trade systems than actors with limited technological resources and weaker institutional capability. These developments indicate that inclusive digital trade increasingly depends on equitable capability development and adaptive participation systems capable of reducing digital trade disparities. Therefore, capability readiness and inclusive participation become increasingly important for supporting sustainable cross-border economic transformation within contemporary digital economies.

3. | RESEARCH METHOD

This study employs a qualitative Systematic Literature Review (SLR) approach to examine the relationship between digital trade and cross-border economic transformation within contemporary digital economies. A systematic literature review enables researchers to synthesize findings from diverse interdisciplinary studies while identifying conceptual patterns, theoretical developments, and emerging trends associated with digitally integrated international trade systems. Snyder (2019) explains that literature reviews are particularly useful for developing conceptual understanding and identifying broader analytical relationships within rapidly evolving research domains. Similarly, Linnenluecke et al. (2020) emphasize that systematic review methodologies improve analytical transparency and strengthen research rigor through structured evidence synthesis procedures. Through this approach, the study seeks to develop a comprehensive understanding of how digital economies influence cross-border commerce, platform-mediated trade systems, infrastructure readiness, governance adaptation, and inclusive participation within global digital markets. Consequently, the review focuses not only on technological integration but also on the institutional, infrastructural, and capability-related dimensions of digital trade transformation.

The review process follows the PRISMA 2020 framework to ensure methodological consistency, transparency, and rigor throughout the literature identification and selection stages. Page et al. (2021) highlight that PRISMA guidelines improve systematic review quality through structured procedures involving identification, screening, eligibility assessment, and inclusion. Academic literature was collected from major scholarly databases, including Scopus, Google Scholar, ScienceDirect, Springer, Emerald, and Taylor & Francis. The search process utilized combinations of keywords related to digital trade, cross-border e-commerce, digital

commerce, platform globalization, digital infrastructure, trade readiness, digital trade governance, cross-border data flows, international digital regulation, and inclusive digital participation. Inclusion criteria focused on peer-reviewed journal articles, scholarly books, conference proceedings, and institutional publications published between 2018 and 2024 that directly addressed digital trade transformation and cross-border economic integration within digital economies. Studies focusing exclusively on highly technical information systems or engineering implementation without broader trade or economic relevance were excluded from the analysis. This selection process ensured that the reviewed literature remained aligned with the objectives and analytical direction of the study.

Following the literature collection process, the selected studies were analyzed using a qualitative thematic synthesis approach to identify recurring trade-related themes, conceptual relationships, and broader transformation patterns within digital trade research. Thematic synthesis enables researchers to compare findings across studies while generating broader interpretations regarding digitally integrated commerce and international economic participation. The literature was categorized into several thematic areas, including digital trade and global economic integration, cross-border e-commerce, platform-mediated commerce, digital infrastructure readiness, trade governance, regulatory adaptation, and inclusive digital participation. This thematic classification enabled the study to examine how digitally connected commercial systems reshape international trade participation and cross-border economic coordination within contemporary digital economies. In addition, thematic synthesis facilitated the identification of recurring capability and participation challenges associated with digital trade transformation, including unequal infrastructure readiness, regulatory fragmentation, participation disparities, and digitally mediated trade inequality. Consequently, the study provides an integrated conceptual interpretation of digital trade transformation rather than isolated descriptions of individual studies.

The analytical process further emphasizes the interconnected relationship between infrastructure readiness, governance adaptation, digital capability, and globally integrated commercial systems within digitally evolving trade environments. The reviewed studies were examined not only for their discussion of technological connectivity and commercial efficiency but also for their analysis of institutional coordination, cross-border participation capability, and adaptive regulatory systems. This approach enabled the study to evaluate both the opportunities and structural limitations associated with digitally integrated trade transformation. Furthermore, the analysis focused on how enterprises, institutions, and economies adapt to global digital trade expansion through technologically integrated commercial systems and internationally coordinated regulatory mechanisms. By integrating these dimensions, the study seeks to provide a balanced understanding of how digital economies simultaneously support cross-border commercial integration while producing participation disparities and unequal trade capability across economic systems.

Therefore, the qualitative SLR approach enables the study to generate broader insights regarding the infrastructure-dependent and governance-oriented nature of digital trade transformation within contemporary global digital economies.

4. | RESULTS

The reviewed literature demonstrates that digital economies increasingly transform international trade systems through digitally integrated commercial coordination, platform-mediated transactions, and cross-border economic connectivity. Digital technologies influence how enterprises, consumers, and institutions participate in global commercial systems by enabling technologically integrated trade activities and internationally connected marketplace interaction. The findings indicate that digital trade extends beyond the digitization of commercial transactions and increasingly functions as a broader mechanism supporting global economic integration and cross-border market expansion. In many contexts, digitally connected trade systems improve international commercial accessibility, market responsiveness, and transaction efficiency within rapidly evolving global economies. These developments suggest that digital trade increasingly becomes a strategic component of international economic modernization and digitally mediated global participation. Consequently, digital trade transformation has become closely associated with broader cross-border economic integration within contemporary digital economies.

The literature further identifies cross-border e-commerce and platform-mediated commerce as important drivers influencing the expansion of digitally integrated international trade systems. Digital platforms increasingly function as globally connected commercial ecosystems linking enterprises, consumers, and markets through data-driven operational systems and technologically coordinated transactions. The reviewed studies consistently demonstrate that cross-border e-commerce positively influences international market participation, consumer accessibility, and digitally mediated commercial interaction within global economic environments. In addition, platform-based commercial systems contribute significantly to enterprise transformation and operational modernization through digitally integrated trade coordination and marketplace connectivity. However, the findings also indicate that participation effectiveness varies significantly across enterprises and economies with different levels of digital capability and platform readiness. These disparities influence the ability of economic actors to integrate successfully into global digital trade systems. As a result, platform capability increasingly functions as an important determinant of participation within cross-border digital commerce environments.

Another important finding identified in the literature concerns the growing importance of digital infrastructure and technological readiness within international digital trade participation. Participation in digitally integrated commerce increasingly depends on connectivity quality, technological infrastructure, digital operational systems, and adaptive readiness capable of supporting cross-border economic interaction. The reviewed studies indicate that economies characterized by stronger

digital infrastructure and higher readiness capability are generally more capable of participating effectively within international digital trade systems than environments with limited technological connectivity and weaker digital capability. Furthermore, infrastructure readiness positively influences logistical coordination, digital transaction systems, and international commercial responsiveness within digitally integrated trade ecosystems. These findings suggest that digital trade transformation increasingly depends on adaptive infrastructure capability and technologically integrated operational systems. Consequently, infrastructure readiness has become an essential component of sustainable cross-border digital economic participation.

The findings also demonstrate that governance adaptation and regulatory coordination play major roles in supporting sustainable digital trade systems within globally connected economies. Cross-border digital commerce increasingly requires internationally adaptive governance frameworks capable of coordinating digital transactions, platform operations, data flows, and digitally mediated commercial activities across interconnected markets. The reviewed literature highlights that regulatory harmonization contributes positively to trade participation, commercial coordination, and digitally integrated economic interaction within international trade environments. In addition, governance capability strengthens institutional readiness and supports policy adaptation necessary for maintaining effective digital trade systems. However, governance effectiveness frequently depends on institutional coordination, policy consistency, and internationally integrated regulatory systems. These findings indicate that digital trade transformation requires not only technological capability but also adaptive governance structures capable of supporting internationally connected commercial systems. Therefore, regulatory readiness increasingly functions as an important component of cross-border digital trade transformation within contemporary digital economies.

5. | DISCUSSION

Despite the opportunities associated with digital trade expansion, the reviewed literature consistently identifies substantial capability disparities and inclusion challenges affecting equitable participation within global digital economies. Access to digital technologies alone does not guarantee effective participation within cross-border trade systems because infrastructure capability, institutional readiness, and digital competence strongly influence participation outcomes across regions and economic actors. In many cases, technologically advanced economies and enterprises with stronger digital readiness are more capable of integrating into digitally connected commercial systems than environments characterized by weaker infrastructure and limited adaptive capability. The findings further indicate that digital trade expansion may simultaneously support global economic integration while reinforcing unequal participation and capability disparities across international markets. In addition, many MSMEs continue to experience barriers limiting integration into digitally mediated

trade systems because of resource constraints and limited technological capability. These developments suggest that inclusive digital trade increasingly depends on equitable capability development and adaptive participation systems rather than technological access alone.

6. | CONCLUSION

This study concludes that digital economies increasingly reshape international trade systems through digitally integrated commercial coordination, cross-border platform expansion, and technologically connected marketplace participation. The reviewed literature consistently demonstrates that digital trade contributes positively to global economic integration, international commercial accessibility, and digitally mediated trade modernization within contemporary economic environments. In addition, cross-border e-commerce and platform-mediated commerce support enterprise transformation, market expansion, and internationally connected commercial interaction through digitally integrated operational systems. These developments indicate that digital trade transformation increasingly functions as an important component of global economic modernization and digitally connected international participation. However, the findings also demonstrate that successful participation within digital trade systems depends heavily on infrastructure readiness, governance adaptation, platform capability, and adaptive digital participation systems rather than technological connectivity alone.

The findings further reveal that capability disparities and unequal readiness remain major challenges affecting inclusive participation within global digital economies. Many enterprises, institutions, and economies continue to experience limitations related to insufficient digital infrastructure, weak technological capability, fragmented governance coordination, and limited participation readiness within digitally integrated commercial systems. In addition, unequal digital capability significantly influences the ability of economic actors to participate effectively within cross-border digital trade environments. Economies characterized by stronger infrastructure systems, adaptive governance capability, and digitally integrated commercial readiness are generally more capable of maintaining competitiveness within global digital trade systems than environments with limited technological and institutional capacity. These findings indicate that digital trade transformation may simultaneously create opportunities for global economic integration while reinforcing participation disparities and unequal trade capability across international markets. Consequently, sustainable digital trade development requires integrated strategies capable of balancing technological modernization with equitable participation capability and adaptive governance coordination.

Finally, this study emphasizes that sustainable cross-border digital trade transformation requires globally adaptive and capability-oriented approaches capable of integrating technological infrastructure, governance coordination, platform capability, and inclusive participation systems within contemporary digital economies.

Policymakers, enterprises, and economic institutions should prioritize infrastructure readiness, regulatory harmonization, digital capability development, and internationally coordinated trade governance to support long-term digital trade competitiveness and equitable global participation. In addition, digital trade strategies should integrate technological advancement with broader institutional adaptation and inclusive commercial participation mechanisms to reduce participation disparities within globally connected economic environments. Future research may further explore comparative digital trade governance models, regional readiness differences, and the long-term economic implications of digitally integrated commercial systems across emerging and developed economies. By synthesizing existing literature, this study contributes to a broader understanding of how digital trade reshapes cross-border economic transformation, international participation systems, and globally connected commercial interaction within the contemporary digital economy.

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Declaration of Conflicting Interests

The authors declare that there is no conflict of interest.

Ethical Approval and Originality Statement

Ethical approval was obtained for this study. The manuscript represents original work and has not been previously published, nor is it under consideration by another journal.

Data Disclosure Statement

The data that support the findings of this study are available from the corresponding author upon reasonable request.

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