Wannune International Journal of Applied Management, Social sciences, Arts and Entrepreneurship (WIJAMSSAE)

Volume-1, Issue-3, 2026 pp-062-074
ISSN: 3141-4125

Research Paper **Peer-Reviewed/Open Access/ wijamssae.fedpolywannune.edu.ng/**

Deployment of Information and Communication Technology in the Teaching and Learning of English Language in Nigeria: Prospects and Constraints

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Abstract

The integration of Information and Communication Technology (ICT) into English language pedagogy has emerged as a transformative approach in contemporary education systems worldwide. In Nigeria, where English functions as the official language and the primary medium of instruction across educational levels, the deployment of ICT in English language teaching and learning presents significant opportunities as well as considerable challenges. This paper critically examines the prospects and constraints associated with ICT deployment in English language education within the Nigerian context. Drawing on empirical studies, relevant theoretical perspectives, and educational policy documents, the study identifies major prospects of ICT integration, including improved learner engagement, increased access to authentic language resources, promotion of individualized learning, and enhancement of learners' communicative competence. However, the study also highlights persistent challenges, such as inadequate technological infrastructure, limited digital literacy among teachers, ineffective policy implementation, socio-economic inequalities, and institutional constraints. The paper concludes that effective ICT integration in English language pedagogy requires comprehensive teacher training, improved technological infrastructure, consistent policy implementation, and sustained investment in educational technology. These measures are essential for maximizing the potential of ICT in improving English language teaching and learning outcomes in Nigeria.

Keywords: *Information and Communication Technology, English language teaching, Nigeria, digital pedagogy, educational technology, Computer-Assisted Language Learning*

1. Introduction

The twenty-first century has witnessed an unprecedented proliferation of Information and Communication Technology (ICT) across all spheres of human endeavour, with education being no exception. The integration of digital technologies into pedagogical practices has fundamentally altered the landscape of teaching and learning, creating new possibilities for knowledge dissemination, skill acquisition, and learner engagement (Kozma, 2005; Tinio, 2003). Within the domain of language education, ICT has revolutionised instructional methodologies, offering tools and platforms that facilitate authentic communication, provide access to diverse linguistic resources, and enable personalized learning experiences (Garba, 2025; Olaore, 2014).

In Nigeria, the significance of English language proficiency cannot be overstated. As the official language of administration, commerce, and education, English serves as the critical medium through which educational content is delivered across all levels of the Nigerian educational system (Federal Republic of Nigeria, 2013). Consequently, the quality of English language instruction directly impacts learners' academic achievement and their capacity to participate meaningfully in national and global contexts. The deployment of ICT in English language teaching and learning therefore assumes strategic importance, potentially enhancing both the efficiency and effectiveness of language pedagogy (Akinbode, 2008; Akintunde & Angulu, 2015).

However, despite the documented potential of ICT to transform English language education, its integration in Nigerian classrooms remains fraught with challenges. Empirical evidence suggests that while awareness of ICT's

pedagogical value has increased among Nigerian educators, actual deployment remains limited and uneven (Jegede & Owolabi, 2008; Onasanya et al., 2010). The gap between policy intentions and classroom realities underscores the need for a comprehensive examination of both the prospects that ICT offers and the constraints that impede its effective utilization.

This paper therefore critically examines the deployment of ICT in the teaching and learning of English language in Nigeria, with particular attention to the prospects and constraints that characterise this endeavour. Through a synthesis of existing literature, the paper aims to provide a nuanced understanding of the current state of ICT integration in English language education, identify factors that facilitate or hinder effective deployment, and propose evidence-based recommendations for optimizing ICT's pedagogical potential.

2. Literature Review

2.1 Theoretical Frameworks for ICT Integration

The integration of ICT into educational practice is underpinned by several theoretical perspectives that illuminate the processes and conditions necessary for effective technology adoption. The Diffusion of Innovations theory, propounded by Rogers (2003), provides a foundational framework for understanding how new technologies spread through social systems. According to this theory, the adoption of innovations follows a predictable pattern, with individuals categorised as innovators, early adopters, early majority, late majority, and laggards. The theory emphasises that successful diffusion depends on several attributes of the innovation, including relative advantage, compatibility, complexity, trialability, and observability. In the context of ICT integration in Nigerian English language classrooms, this framework helps explain variations in adoption rates among teachers and institutions.

Complementing Rogers' theory, the Technological Pedagogical Content Knowledge (TPACK) framework emphasises the complex interplay between technological knowledge, pedagogical knowledge, and content knowledge that effective technology integration requires (UNESCO, 2011). This framework suggests that successful ICT deployment in language education demands more than mere technical proficiency; it requires teachers to understand how technology can be strategically employed to enhance the teaching of specific language skills and concepts. The TPACK framework has been influential in shaping teacher professional development programmes and curriculum design for technology-enhanced language learning.

Kozma (2005) further contributed to theoretical understanding by examining the relationship between national policies, ICT-based education reform, and economic and social development. His analysis revealed that effective ICT integration in education requires coherent policy frameworks that align technological infrastructure, teacher training, curriculum reform, and assessment practices. This perspective is particularly relevant to the Nigerian context, where fragmented policy implementation has been identified as a significant impediment to ICT deployment (Chukwuemeka & Chijioke, 2019).

2.2 ICT and Language Learning: Global Perspectives

The global literature on ICT in language education has demonstrated consistent evidence of technology's potential to enhance learning outcomes across multiple dimensions. Computer-Assisted Language Learning (CALL) has evolved from early behaviourist programmes to sophisticated applications that leverage artificial intelligence, natural language processing, and multimedia capabilities (Sulaiman et al., 2025). Contemporary CALL applications offer learners opportunities for authentic communication, immediate feedback, and exposure to diverse linguistic registers that would be difficult to replicate in traditional classroom settings.

Olojo et al. (2012) examined the effects of e-learning on teaching and learning in a global age, concluding that digital platforms expand access to educational resources, facilitate collaborative learning, and enable flexible, self-paced study. Their analysis highlighted the potential of e-learning to address the limitations of traditional face-to-face instruction, particularly in contexts characterised by large class sizes and limited instructional time. These findings have particular relevance for Nigerian educational institutions, where overcrowded classrooms and inadequate instructional resources are persistent challenges (Okonkwo & Ereke, 2013).

In the specific domain of English language teaching, research has demonstrated that ICT can enhance the development of all four language skills: listening, speaking, reading, and writing. Maduabuchi and Emechebe (2016) investigated the use of ICT in teaching reading comprehension in English as a Second Language, finding that technology-enhanced instruction improved learners' comprehension abilities and engagement with texts. Similarly, Ogbuehi (2025) explored the application of digital tools for vocabulary development in Nigerian ESL classrooms, concluding that technology-mediated vocabulary instruction was more effective than traditional methods in promoting lexical acquisition and retention.

2.3 ICT in Nigerian English Language Education: Historical Development

The introduction of ICT into Nigerian educational system can be traced to the late twentieth century, when the federal government began implementing policies aimed at computerising schools and promoting digital literacy among students and teachers (Yusuf & Onasanya, 2004). The National Policy on Education (Federal Republic of

Nigeria, 2013) explicitly recognises the importance of educational technology in achieving national educational objectives, calling for the integration of ICT into teaching and learning across all levels of the educational system. Akinbode (2008) provided one of the earliest empirical examinations of ICT's impact on English language teaching in Nigerian secondary schools. His study found that while teachers acknowledged the potential benefits of ICT, actual utilization was limited by factors including inadequate computer facilities, unreliable power supply, and insufficient teacher training. These findings were corroborated by subsequent studies, which documented persistent gaps between policy aspirations and classroom realities (Akintunde & Angulu, 2015; Mbah, 2017).

The evolution of ICT integration in Nigerian English language education has been marked by several significant developments. The introduction of computer laboratories in secondary schools, the establishment of educational resource centres, and the proliferation of mobile devices have expanded the technological infrastructure available for language instruction (Bamigbola, 2016). However, access to these resources remains highly unequal, with urban and well-funded institutions enjoying significant advantages over rural and under-resourced schools (Chiedu & Ohwonohwo, 2021).

2.4 Teacher Preparedness and Professional Development

The successful integration of ICT into English language pedagogy depends critically on teacher preparedness and competence. Jegede and Owolabi (2008) identified teacher factors as decisive determinants of ICT integration in Nigerian secondary schools, noting that teachers' attitudes, skills, and knowledge significantly influence their willingness and ability to incorporate technology into their instructional practices. Their study revealed that many Nigerian teachers lacked basic computer literacy skills and had received minimal training in the pedagogical applications of ICT.

Onasanya et al. (2010) examined teacher educators' awareness and adoption of ICT in Nigeria, finding that despite high levels of awareness about the importance of technology in education, actual adoption remained low. The authors attributed this gap to inadequate training opportunities, limited access to technology, and insufficient institutional support for innovation. These findings underscore the need for comprehensive professional development programmes that address both technical skills and pedagogical knowledge required for effective ICT integration.

More recent studies have continued to document teacher-related challenges. Uloh-Bethels and Okonji (2025) investigated teacher readiness for implementing digital assistive technologies for inclusive English language education in Nigerian universities, finding low levels of readiness due to insufficient training, lack of confidence, and inadequate accessibility to necessary tools. Similarly, Nwosu and Ogbuehi (2020) examined the relationship between ICT literacy and teachers' effectiveness in English language teaching, concluding that higher levels of ICT literacy were associated with more effective instructional practices.

2.5 ICT Competency Frameworks and Standards

International organisations have developed frameworks to guide ICT integration in education, providing benchmarks for teacher competence and institutional readiness. The UNESCO ICT Competency Framework for Teachers (UNESCO, 2011, 2018) outlines a progression of competencies that teachers should develop to effectively integrate technology into their practice. The framework identifies three stages of development: technology literacy, knowledge deepening, and knowledge creation, with each stage representing increasingly sophisticated levels of technology integration.

The application of these international frameworks to the Nigerian context has been uneven. While policy documents reference the importance of ICT competency standards, implementation has been inconsistent, with many teacher education programmes failing to adequately prepare graduates for technology-enhanced instruction (Onasanya et al., 2010). This disconnect between policy and practice represents a significant constraint on the deployment of ICT in English language education.

3. Prospects of ICT Deployment in English Language Teaching and Learning

3.1 Enhanced Access to Authentic Language Materials

One of the most significant prospects offered by ICT deployment is the expanded access to authentic language materials that technology provides. The internet offers an unprecedented wealth of authentic English language resources, including news articles, podcasts, videos, social media content, and interactive websites that expose learners to diverse registers, accents, and contexts of language use (Garba, 2025; Olaore, 2014). Unlike traditional textbooks, which often present sanitised and decontextualised language samples, digital resources provide learners with exposure to genuine communicative language use.

The availability of these materials is particularly valuable in the Nigerian context, where access to current, culturally relevant English language resources may be limited. Through ICT, Nigerian learners can access content from around the English-speaking world, developing their linguistic competence while also broadening their

cultural understanding (Inyang, 2017). Digital platforms such as YouTube, TED Talks, and educational websites offer opportunities for listening practice with diverse accents and speaking styles, addressing a common limitation of traditional language instruction.

3.2 Facilitation of Individualized and Self-Paced Learning

ICT offers significant potential for personalising language instruction to meet individual learner needs. Digital platforms can adapt content and pacing to match learners' proficiency levels, providing differentiated instruction that would be difficult to achieve in traditional classroom settings (Olojo et al., 2012). Adaptive learning technologies can diagnose learners' strengths and weaknesses, recommend appropriate activities, and provide immediate feedback, enabling learners to progress at their own pace.

For Nigerian learners who may have varying levels of English proficiency and different learning needs, this personalization represents a significant advantage. Computer-Assisted Language Learning (CALL) applications can provide targeted practice in specific language skills, allowing learners to focus on areas where they need the most improvement (Sulaiman et al., 2025). This individualized approach can complement classroom instruction, extending learning beyond the confines of the school day and enabling learners to take greater responsibility for their own learning.

3.3 Enhancement of Communicative Competence

The development of communicative competence is a central goal of English language teaching, and ICT offers powerful tools for achieving this objective. Digital platforms enable authentic communication with speakers of English from around the world, providing opportunities for meaningful language use that extend beyond the classroom (Maduabuchi & Emechebe, 2016). Video conferencing, online forums, and social media platforms allow Nigerian learners to engage in real communication with native and non-native speakers, developing their ability to use English effectively in diverse contexts.

Furthermore, ICT tools can support the development of specific communicative skills. Speech recognition software can provide feedback on pronunciation, while language exchange platforms connect learners with conversation partners. Collaborative writing tools enable learners to work together on written texts, developing their writing skills through peer interaction and feedback. These applications of ICT align with communicative language teaching principles, which emphasise the importance of meaningful communication in language learning (Ogbuehi, 2025).

3.4 Promotion of Learner Engagement and Motivation

Digital technologies have the potential to enhance learner engagement and motivation through interactive, multimedia-rich learning experiences. Games, simulations, and interactive activities can make language learning more enjoyable and engaging for learners, particularly those who may find traditional instructional methods less appealing (Akabua, 2024). The visual and auditory elements of digital content can appeal to different learning styles, accommodating learners who benefit from multimodal instruction.

Research has consistently demonstrated that technology-enhanced language learning can increase learner motivation and engagement (Eze, 2025; Garba, 2025). The novelty and interactivity of digital tools can capture learners' attention, while the immediate feedback provided by many applications can maintain engagement through a sense of progress and achievement. For Nigerian learners, who may face challenges in maintaining motivation in large, under-resourced classrooms, the engaging nature of ICT-based learning can be particularly valuable.

3.5 Facilitation of Collaborative Learning

ICT platforms facilitate collaborative learning by enabling learners to work together on language tasks, share resources, and provide peer feedback. Online discussion forums, collaborative writing tools, and social media platforms create opportunities for learners to interact with peers, developing their language skills through social interaction (Afiene et al., 2025). These collaborative activities align with sociocultural theories of learning, which emphasise the importance of social interaction in cognitive development.

In the Nigerian context, where classroom discourse may be dominated by teacher-centred instruction, ICT-enabled collaboration can provide learners with valuable opportunities for active participation and peer learning. Collaborative projects that utilise digital tools can engage learners in meaningful communication, negotiation of meaning, and joint construction of knowledge (Onyenweaku & Edem, 2018). These experiences can complement and extend the learning that occurs in traditional classroom settings.

3.6 Development of Digital Literacy Skills

The integration of ICT into English language instruction also contributes to the development of digital literacy skills, which are increasingly essential for academic and professional success. As learners engage with digital tools and platforms for language learning, they simultaneously develop competencies in navigating digital

environments, evaluating online information, and using technology for communication and collaboration (UNESCO, 2018). These skills are transferable across domains and prepare learners for participation in a digitalised society and economy.

For Nigerian learners, the development of digital literacy through English language instruction addresses a critical need for workforce readiness. As the Nigerian economy becomes increasingly digitalised, proficiency in using technology for communication and information processing becomes essential for employment and entrepreneurship (Chukwuemeka & Chijioke, 2019). English language instruction that integrates ICT can therefore serve dual purposes, developing both linguistic and digital competencies.

4. Constraints of ICT Deployment in English Language Teaching and Learning

4.1 Infrastructural Deficits

The most fundamental constraint on ICT deployment in Nigerian English language education is the inadequacy of technological infrastructure. Many Nigerian schools lack basic facilities such as computer laboratories, internet connectivity, and reliable electricity supply (Akintunde & Angulu, 2015; Mbah, 2017). Without these foundational resources, the integration of ICT into language instruction remains aspirational rather than practical.

Empirical studies have consistently documented infrastructural deficits across Nigerian educational institutions. Bamigbola (2016) assessed the availability and utilization of ICT facilities in Nigerian universities, finding significant shortfalls in the provision of computers, internet access, and other technological resources. Similarly, Garba (2025) reported that 68% of Nigerian educators face poor internet access, severely limiting their ability to incorporate online resources into their teaching. The situation is particularly acute in rural areas, where schools may have no computers at all and where internet connectivity is unreliable or non-existent.

The problem of infrastructure extends beyond hardware to include software and technical support. Many schools that possess computers lack appropriate educational software, and technical support for maintaining and troubleshooting equipment is often unavailable (Onyia & Onyia, 2019). This lack of technical support means that when equipment malfunctions, it may remain non-functional for extended periods, further limiting opportunities for ICT-enhanced language learning.

4.2 Teacher Digital Literacy Gaps

A second major constraint is the limited digital literacy of many Nigerian English language teachers. Despite the growing recognition of the importance of technology in education, many teachers lack the skills and confidence to integrate ICT effectively into their instructional practices (Jegede & Owolabi, 2008; Uloh-Bethels & Okonji, 2025). This skills gap encompasses both basic technical proficiency and pedagogical knowledge of how to use technology for language teaching.

Nwosu and Ogbuehi (2020) found significant variations in ICT literacy among Nigerian English language teachers, with many demonstrating limited familiarity with common educational technologies. Their study revealed that teachers with lower levels of ICT literacy were less likely to integrate technology into their instruction and less confident in their ability to use technology effectively. Similarly, Okueso and Osijo (2017) identified limitations in teachers' capacity to utilise ICT for English language instruction, attributing these limitations to inadequate pre-service training and insufficient opportunities for professional development.

The problem of teacher digital literacy is compounded by the rapid pace of technological change. New tools and applications are constantly emerging, and teachers who received training several years ago may find their skills outdated. Without ongoing professional development opportunities, teachers may struggle to keep pace with technological developments and may become increasingly disconnected from the digital resources available for language teaching (Onasanya et al., 2010).

4.3 Inadequate Teacher Training and Professional Development

Closely related to digital literacy gaps is the inadequacy of teacher training and professional development programmes for ICT integration. Many Nigerian teacher education programmes provide limited preparation in educational technology, with the result that graduating teachers are ill-equipped to integrate ICT into their teaching (Yusuf & Onasanya, 2004). Even when technology courses are included in teacher preparation curricula, they often focus on basic computer skills rather than the pedagogical applications of technology in specific subject areas.

The UNESCO ICT Competency Framework for Teachers (UNESCO, 2011, 2018) provides guidance on the competencies teachers need to develop for effective technology integration. However, application of this framework in Nigerian teacher education has been uneven. Many programmes lack the resources, expertise, and institutional commitment to provide comprehensive technology preparation. As a result, many teachers enter the profession with minimal preparation for ICT-enhanced instruction and have limited opportunities to develop these skills once in service (Onasanya et al., 2010).

Professional development for practising teachers is similarly inadequate. In-service training programmes often provide brief, one-off workshops that are insufficient to develop the sustained competencies needed for effective technology integration (Jegede & Owolabi, 2008). Without ongoing support and opportunities for practice, teachers may struggle to translate workshop learning into classroom practice. The absence of follow-up support and opportunities for collaboration further limits the impact of professional development initiatives.

4.4 Policy and Curriculum Constraints

Policy and curriculum constraints also impede the effective deployment of ICT in English language education. While the National Policy on Education (Federal Republic of Nigeria, 2013) recognises the importance of educational technology, implementation of policy provisions has been inconsistent. The gap between policy intentions and classroom realities reflects broader challenges in the Nigerian educational system, including inadequate funding, weak institutional capacity, and fragmented governance structures.

Curriculum frameworks for English language education often fail to adequately integrate ICT, treating technology as an add-on rather than an integral component of instruction (Chiedu & Ohwonohwo, 2021). This marginalisation of ICT in curriculum documents means that teachers receive limited guidance on how to incorporate technology into their teaching and may not be assessed on their use of technology. The lack of alignment between curriculum expectations and assessment practices further reduces incentives for teachers to invest time and effort in developing ICT-enhanced instructional approaches.

Kozma (2005) emphasised the importance of coherent policy frameworks that align different components of the educational system in support of technology integration. In Nigeria, such coherence is often lacking, with policies related to infrastructure, teacher training, curriculum, and assessment developed and implemented in isolation from one another. This fragmentation undermines efforts to promote effective ICT deployment and contributes to the persistent gap between policy aspirations and classroom realities.

4.5 Socio-Economic Barriers

Socio-economic factors constitute another significant constraint on ICT deployment in English language education. The cost of technology, including hardware, software, and internet connectivity, places ICT integration beyond the reach of many Nigerian schools and learners (Inyang, 2017). The digital divide between urban and rural areas, and between well-funded and under-resourced institutions, means that access to technology-enhanced language learning is highly unequal.

For learners from economically disadvantaged backgrounds, the cost of technology may be prohibitive. While mobile phones are increasingly ubiquitous in Nigeria, not all learners have access to smartphones or can afford data plans that would enable online learning (Akabua, 2024). This unequal access means that ICT-enhanced instruction may exacerbate rather than reduce educational inequalities, privileging learners who have the resources to access technology while disadvantaging those who do not.

The socio-economic dimension of the digital divide also affects teachers. Teachers in well-funded urban schools may have access to technology and training opportunities that are unavailable to their counterparts in rural or under-resourced schools. This disparity contributes to variations in the quality of English language instruction and may perpetuate cycles of educational disadvantage (Okonkwo & Ereke, 2013).

4.6 Institutional and Administrative Challenges

Institutional and administrative challenges further constrain ICT deployment. Many Nigerian schools lack the administrative structures and support systems needed to sustain technology integration initiatives (Chukwuemeka & Chijioke, 2019). Without effective leadership, strategic planning, and resource allocation, efforts to integrate ICT into English language instruction may be fragmented and unsustainable.

The absence of technical support staff in many schools means that teachers must rely on their own limited expertise to troubleshoot technology problems, reducing the time available for instructional activities (Onyia & Onyia, 2019). Additionally, the lack of clear policies and procedures for technology use in schools may create uncertainty among teachers about expectations and appropriate practices.

Institutional resistance to change can also impede ICT integration. Educational institutions are often characterised by established routines and practices that are resistant to innovation (Rogers, 2003). Teachers who are accustomed to traditional instructional methods may be reluctant to adopt new technologies, particularly if they perceive technology as threatening to their professional autonomy or if they lack confidence in their ability to use technology effectively.

4.7 Technical and Maintenance Issues

Technical and maintenance issues represent persistent challenges in ICT deployment. Even when equipment is initially available, breakdowns and malfunctions are common, particularly in contexts where equipment is used intensively and where power supply is unreliable (Mbah, 2017). The absence of maintenance contracts or technical

support means that broken equipment may remain non-functional for extended periods, effectively removing it from the pool of available resources.
Software compatibility issues, virus infections, and data loss are among the technical problems that can disrupt ICT-enhanced instruction. Without adequate technical support and backup systems, these problems can cause significant disruption to teaching and learning. The rapid obsolescence of technology also presents challenges, as equipment that was state-of-the-art when purchased may quickly become outdated and incompatible with newer software and applications (Bamigbola, 2016).

4.8 Language-Specific Challenges

The deployment of ICT in English language teaching also faces language-specific challenges. While digital resources offer access to authentic English language materials, the variety of English represented in these resources may not align with the variety that Nigerian learners need to develop. The predominance of American and British English in online content may expose learners to language varieties that differ from Nigerian English in pronunciation, vocabulary, and usage patterns (Adesanmi & Adeagbo, 2026).
Furthermore, the cultural content of digital resources may not reflect Nigerian learners' experiences and contexts. This cultural mismatch can reduce the relevance and engagement of ICT-enhanced instruction, particularly for learners who may struggle to relate to content that reflects unfamiliar cultural contexts. The development of locally relevant digital resources for English language teaching remains limited, representing a gap in the current landscape of educational technology in Nigeria (Akintunde & Angulu, 2015).

5. Synthesis and Discussion

5.1 Interconnections Among Constraints

The constraints on ICT deployment in Nigerian English language education are not isolated phenomena but are interconnected and mutually reinforcing. Infrastructural deficits limit the possibilities for technology integration, while teacher digital literacy gaps reduce the capacity to utilise available technology effectively. Policy and curriculum constraints provide insufficient guidance and incentives for ICT integration, while socio-economic barriers create unequal access to technology-enhanced learning opportunities. Institutional challenges, technical problems, and language-specific issues add further layers of complexity to the deployment challenge.
Addressing these interconnected constraints requires comprehensive, multi-faceted approaches that simultaneously address multiple dimensions of the problem. Isolated interventions that target only one constraint are unlikely to be sufficient, as the persistence of other constraints will continue to limit the effectiveness of technology integration. A systemic approach that addresses infrastructure, teacher development, policy coherence, socio-economic equity, and institutional capacity is therefore essential (Kozma, 2005).

5.2 The Gap Between Policy and Practice

A recurring theme in the literature is the gap between policy intentions and classroom realities. Policy documents articulate ambitious visions for ICT integration, but implementation often falls short of these aspirations. This gap reflects deeper challenges in the Nigerian educational system, including weak implementation capacity, inadequate funding, and fragmented governance structures (Chukwuemeka & Chijioke, 2019).
Closing the gap between policy and practice requires attention to implementation processes, not just policy formulation. This includes building institutional capacity for technology integration, providing adequate resources for implementation, and creating accountability mechanisms that ensure policies are translated into practice. The development of clear implementation guidelines, support structures, and monitoring systems is essential for translating policy aspirations into classroom realities.

5.3 The Digital Divide and Educational Equity

The digital divide in Nigerian education raises important questions of equity and social justice. ICT-enhanced language learning has the potential to improve educational outcomes for all learners, but only if all learners have access to the technology and support needed to benefit from it. Current patterns of unequal access mean that ICT integration may exacerbate rather than reduce educational inequalities (Inyang, 2017).
Addressing the digital divide requires targeted interventions that ensure equitable access to technology and support. This includes not only providing technology to under-resourced schools but also ensuring that teachers in these schools receive adequate training and support, and that learners have opportunities to develop the digital literacy skills needed to benefit from technology-enhanced learning. Without such interventions, the promise of ICT to enhance English language education for all Nigerian learners will remain unfulfilled.

5.4 Implications for Teacher Education

The findings of this review have significant implications for teacher education in Nigeria. The limited digital literacy and pedagogical knowledge of many English language teachers underscore the need for comprehensive

reform of teacher preparation programmes. Pre-service teacher education should provide opportunities for developing both technical skills and pedagogical knowledge of ICT integration, with a focus on practical application in authentic teaching contexts (UNESCO, 2011, 2018).
In-service professional development must also be strengthened, moving beyond brief workshops to sustained, collaborative learning opportunities that support teachers in developing and refining their ICT integration practices. Professional learning communities, mentoring programmes, and online communities of practice can provide ongoing support for teachers as they navigate the challenges of technology integration (Nwosu & Ogbuehi, 2020).

6. Recommendations

Based on the analysis presented in this paper, the following recommendations are proposed for optimizing ICT deployment in English language teaching and learning in Nigeria:

6.1 Infrastructure Development

Government at all levels should prioritise investment in educational technology infrastructure, including computers, internet connectivity, and reliable power supply. Public-private partnerships can be explored to leverage additional resources for infrastructure development. Schools should be equipped with functional computer laboratories, and internet access should be provided to enable access to online language learning resources.

6.2 Comprehensive Teacher Professional Development

Teacher education programmes should integrate ICT competency development throughout the curriculum, preparing pre-service teachers to use technology effectively in their instruction. In-service professional development should provide sustained, practice-based opportunities for teachers to develop and refine their ICT integration skills. Training should address both technical skills and pedagogical knowledge, with a focus on practical application in English language teaching contexts.

6.3 Policy Coherence and Implementation

Policy frameworks for ICT integration should be coherent and aligned across different components of the educational system. Clear implementation guidelines, adequate resources, and accountability mechanisms should accompany policy formulation to ensure that policies are translated into practice. Curriculum frameworks should explicitly integrate ICT, and assessment practices should recognise and reward effective technology integration.

6.4 Equitable Access

Targeted interventions should address the digital divide, ensuring that learners in under-resourced schools have access to technology and support. Subsidies or free provision of technology for disadvantaged learners, combined with teacher training and support, can help ensure that ICT-enhanced language learning benefits all learners, not just those in well-resourced institutions.

6.5 Development of Locally Relevant Digital Resources

Investment in the development of digital resources that reflect Nigerian cultural contexts and language varieties should be prioritised. This includes the creation of locally produced educational content, the adaptation of existing resources for Nigerian contexts, and the development of platforms that facilitate Nigerian teachers' sharing of resources and expertise.

6.6 Research and Evaluation

Ongoing research and evaluation should be conducted to assess the effectiveness of ICT deployment strategies and identify areas for improvement. This includes research on the impact of ICT on English language learning outcomes, the effectiveness of different teacher training approaches, and the factors that facilitate or constrain ICT integration in different contexts. Such research can inform evidence-based policy and practice, contributing to more effective ICT deployment.

7. Conclusion

The deployment of Information and Communication Technology in the teaching and learning of English language in Nigeria presents both significant prospects and formidable constraints. The prospects include enhanced access to authentic language materials, facilitation of individualized and self-paced learning, enhancement of communicative competence, promotion of learner engagement and motivation, facilitation of collaborative learning, and development of digital literacy skills. These prospects offer the potential to transform English language education, improving learning outcomes and preparing learners for participation in a digitalised world.

However, realizing these prospects requires addressing the constraints that currently impede effective ICT deployment. These constraints include infrastructural deficits, teacher digital literacy gaps, inadequate teacher training and professional development, policy and curriculum constraints, socio-economic barriers, institutional and administrative challenges, technical and maintenance issues, and language-specific challenges. These constraints are interconnected and mutually reinforcing, requiring comprehensive, multi-faceted approaches for their resolution.

The gap between policy aspirations and classroom realities in ICT deployment reflects broader challenges in the Nigerian educational system, including weak implementation capacity, inadequate funding, and fragmented governance. Closing this gap requires attention to implementation processes, institutional capacity building, and the creation of supportive conditions for technology integration.

The digital divide in Nigerian education raises important questions of equity and social justice. Ensuring that ICT-enhanced language learning benefits all learners, not just those in well-resourced institutions, requires targeted interventions that address disparities in access to technology and support.

The implications for teacher education are significant. Comprehensive reform of pre-service and in-service teacher education is needed to prepare teachers for effective ICT integration. This includes developing both technical skills and pedagogical knowledge, with a focus on practical application in authentic teaching contexts.

The recommendations proposed in this paper—infrastructure development, comprehensive teacher professional development, policy coherence and implementation, equitable access, development of locally relevant digital resources, and research and evaluation—provide a roadmap for optimizing ICT deployment in English language education. Implementing these recommendations requires sustained commitment and investment from government, educational institutions, and other stakeholders.

In conclusion, the deployment of ICT in English language teaching and learning in Nigeria holds immense potential for improving educational outcomes and preparing learners for success in an increasingly digitalised world. Realising this potential requires confronting the constraints that currently impede effective ICT integration and taking concerted action to create the conditions for success. Through such efforts, ICT can become a powerful tool for enhancing English language education in Nigeria, benefiting learners, teachers, and the nation as a whole.

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How to Cite this Article: *Tyough, N., & Abon, I. (2026). Deployment of Information and Communication Technology in the teaching and learning of English language in Nigeria: Prospects and constraints. Wannune International Journal of Applied Management, Social Sciences, Arts and Entrepreneurship (WIJAMSSAE), 1(3), 62–73.*

Wannune International Journal of Applied Management, Social sciences, Arts and Entrepreneurship (WIJAMSSAE)

Volume-1, Issue-3, 2026 pp-074-090
ISSN: 3141-4125

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Uses of Public Relations in the Management of Health Care Institutions in Nigeria: A Study of Benue State University Teaching Hospital, Makurdi

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