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Integrating Pedagogical Translanguaging and Blended Learning to Foster Sustainable Language Education in Higher Education Contexts

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Abstract

This study explores the integration of pedagogical translanguaging and blended learning as a framework for sustainable language education in higher education. Using a qualitative descriptive design involving 12 lecturers and 36 students from multilingual universities in Indonesia, the study examines how translanguaging strategies enhance linguistic comprehension, engagement, and inclusivity within blended learning environments. Data from observations, interviews, and document analysis revealed that 83% of lecturers deliberately implemented translanguaging, resulting in a 20% increase in student participation and a 0.8-point improvement in writing coherence. The findings affirm García and Li Wei's theory of translanguaging as an epistemic resource and Garrison and Vaughan's model of blended learning as a sustainable pedagogy. The study proposes a Translanguaging-Blended Learning Ecosystem (TBLE) as an innovative model for equitable, inclusive, and future-oriented language education.

Keywords: translanguaging, blended learning, sustainable education, multilingual pedagogy, higher education.

Introduction

In the rapidly evolving landscape of higher education, integrating digital technology with innovative pedagogical approaches has become a critical priority to ensure the sustainability of language education. The emergence of blended learning which merges traditional face-to-face instruction with online modalities has redefined how linguistic competence and communicative skills are

cultivated among university students. Simultaneously, pedagogical translanguaging has gained increasing recognition as a transformative practice that leverages students' full linguistic repertoires to foster deeper comprehension and intercultural understanding. The convergence of these two paradigms technological integration and linguistic inclusivity represents a

shift toward flexible, inclusive, and sustainable models of education aligned with Sustainable Development Goal 4 (SDG 4), which emphasizes equitable access to quality education (Pérez Fernández, 2024).

Despite these promising innovations, the practical implementation of translanguaging and blended learning in higher education remains inconsistent and often superficial (Bojsen et al., 2023). Many institutions employ blended learning as a mere substitution of traditional lectures with online content without restructuring their pedagogical frameworks to promote meaningful linguistic and cognitive engagement (Heugh et al., 2021). Likewise, translanguaging is frequently misunderstood as a compensatory strategy for linguistically diverse learners rather than a pedagogical orientation that enhances critical thinking, creativity, and collaboration (AKDENİZ, 2025). This fragmented approach perpetuates a persistent gap between institutional policy and classroom practice, particularly in multilingual higher education settings where linguistic diversity should ideally function as a pedagogical asset rather than a barrier (Mazak & Carroll, 2016).

The challenges of integrating translanguaging within blended learning environments are complex and multidimensional. These include limited theoretical understanding among educators, inadequate institutional support, and technological infrastructures that fail to accommodate multilingual communication (Wang et al., 2024). Moreover, designing fair and inclusive assessments in multilingual settings poses additional difficulty. To address these challenges, educators must reconceptualize the learning environment as a translanguaging space where technology facilitates rather than restricts linguistic fluidity. Strategies such as digital scaffolding, multimodal collaboration, and cross-linguistic peer feedback can strengthen students' cognitive engagement while promoting inclusive, sustainable practices in language education.

This study aims to examine how pedagogical translanguaging can be systematically integrated into blended learning frameworks to promote sustainable language education in higher education contexts. Previous research has extensively explored translanguaging and blended learning as separate constructs, yet their intersection remains under-investigated. The absence of empirical models demonstrating their integration represents a significant gap in both theory and practice. This research addresses that gap by examining the pedagogical, technological, and institutional mechanisms necessary for such integration. The urgency of this inquiry lies in its potential to advance global discussions on inclusive, equitable, and future-ready education systems particularly within multilingual societies striving toward educational sustainability.

Higher education institutions worldwide are currently undergoing rapid transformation driven by digitalization and internationalization (Bowden et al., 2024). The proliferation of digital communication tools has expanded the linguistic and cultural boundaries of learning, positioning multilingualism as both a pedagogical and professional competency. However, in many developing contexts such as Indonesia, higher education institutions struggle to balance technological modernization with linguistic inclusivity. Integrating translanguaging practices into blended learning provides a pathway for bridging this divide by enabling students to construct knowledge through multiple linguistic and digital modes simultaneously, thereby supporting cognitive flexibility and lifelong learning (Barbici-Wagner, 2023).

Pedagogical translanguaging is grounded in sociocultural theory, which posits that knowledge is co-constructed through social interaction mediated by language (Vygotsky, 1978). It challenges the traditional compartmentalization of languages in classroom instruction by allowing fluid and authentic language practices reflective of real-world communication (García & Wei, 2022). Conversely, blended learning draws from constructivist and connectivist paradigms that emphasize autonomy, interactivity, and learner agency. When combined, these frameworks form a synergistic approach where digital platforms serve as authentic spaces for multilingual meaning-making, thus aligning pedagogical design with the principles of sustainability and inclusivity.

The integration of translanguaging and blended learning contributes directly to the realization of SDG 4 by promoting inclusion, innovation, and cultural sustainability (Kwee & Dos Santos, 2022). This pedagogical synthesis ensures equitable participation among students of diverse linguistic backgrounds while nurturing twenty-first-century skills such as critical thinking, intercultural communication, and adaptability. Furthermore, it positions learners as active agents capable of navigating multilingual, multimodal, and technologically mediated learning environments. In doing so, it fosters resilience and creativity key attributes for sustainable education in the global knowledge economy (Barbici-Wagner, 2023; Fernández, 2024; Karimova, 2025).

In the Indonesian context, where linguistic diversity is both vast and integral to cultural identity, the adoption of pedagogical translanguaging holds profound relevance (Prasatyto et al., 2025). Despite the coexistence of hundreds of local languages alongside Bahasa Indonesia and English, higher education institutions often perpetuate monolingual norms that marginalize local linguistic resources (Kuncorongtyas et al., 2025). Blended learning platforms, if designed inclusively, can function as digital ecosystems where translanguaging practices are legitimized and pedagogically leveraged (Yolandana et al., 2024). Embedding translanguaging strategies into digital modules aligns with national education reforms under Kampus Merdeka and the vision of Society 5.0, promoting equitable, student-centered, and sustainable learning (Astriana et al., 2024; Hersusetyati & Chandra, 2022; Hunaepi & Suharta, 2024; Langoday et al., 2024; Rochmat et al., 2023; Voak et al., 2024; Zainuddin, 2025).

From a theoretical perspective, integrating translanguaging and blended learning contributes a novel framework for understanding the relationship between language, technology, and sustainability in education (Rostandi et al., 2025). Practically, it offers a model for educators to design learning experiences that are inclusive, interactive, and contextually relevant. This integration also encourages the utilization of emerging digital tools such as AI-assisted translation, collaborative writing platforms, and multimedia storytelling to facilitate multilingual engagement and enhance students' cognitive autonomy. Through such practices, higher education institutions can foster global citizenship and linguistic sustainability.

In summary, the convergence of pedagogical translanguaging and blended learning represents a vital innovation in the pursuit of sustainable language education in higher education. Nonetheless, empirical studies examining their combined implementation remain scarce. This study seeks to address this theoretical and practical gap by exploring how both approaches can be synergized to strengthen multilingual engagement, digital competence, and

pedagogical sustainability. By situating this inquiry within the global discourse on transformative and inclusive education, the study aims to contribute to the creation of resilient, future-oriented, and linguistically just higher education systems.

Literature review

The conceptual foundation of this study is built upon the intersection of two major pedagogical paradigms in language education translanguaging pedagogy and blended learning as complementary frameworks for promoting sustainable, inclusive, and future-oriented higher education. Both approaches are underpinned by sociocultural, constructivist, and ecological theories of learning that emphasize knowledge co-construction, learner agency, and contextual adaptation. This section reviews the key theoretical constructs and empirical findings related to each domain, followed by an analysis of their potential synthesis in fostering sustainable language education.

Pedagogical translanguaging has emerged as a transformative framework that redefines multilingual practices in education by legitimizing the use of multiple languages as cognitive and cultural resources for learning (García & Wei, 2014; Li, 2018). Rather than enforcing rigid linguistic separation, translanguaging encourages learners to strategically and fluidly use all elements of their linguistic repertoires to construct meaning, negotiate identity, and participate in academic discourse. From a sociocultural perspective (Vygotsky, 1978), language functions as both a communicative tool and a mediational means through which learners internalize knowledge. Translanguaging thus facilitates not only linguistic development but also higher-order thinking, intercultural awareness, and epistemic access, particularly for multilingual learners in higher education settings.

In recent years, translanguaging has evolved beyond a classroom strategy to a pedagogical orientation that promotes equity and epistemic justice (Cenoz & Gorter, 2021). It challenges the dominance of monolingual ideologies in education by advocating for inclusive spaces where linguistic and cultural diversity are valued as integral components of learning. Research by García, Otheguy, and Reid (2019) shows that translanguaging can enhance students' cognitive engagement and motivation when teachers intentionally design tasks that allow flexible language use. Similarly, (Canagarajah, 2020) highlights the importance of translanguaging competence as a global literacy skill in an interconnected, multilingual world. These studies collectively suggest that pedagogical translanguaging is not merely an alternative approach but a reconfiguration of how language, identity, and knowledge intersect in education.

Parallel to this, blended learning has gained prominence as a sustainable pedagogical model that combines digital innovation with human-centered instruction. Rooted in constructivist principles, blended learning aims to balance online and offline modes of engagement to maximize accessibility, flexibility, and student autonomy (Garrison & Vaughan, 2008; Hrastinski, 2019). It offers opportunities for active, collaborative, and personalized learning that align with contemporary educational goals under the Fourth Industrial Revolution (Industry 4.0) and Society 5.0. Scholars such as (Graham, 2021) and (Boelens et al., 2018) argue that blended learning, when implemented with pedagogical intentionality, can transform higher education into a more sustainable and equitable system by promoting digital literacy, adaptive learning, and reflective practice.

However, empirical evidence also reveals that blended learning initiatives often fail to achieve their transformative potential due to superficial implementation (Alammary, 2019). In many cases, digital technologies are used as mere content delivery systems rather than as tools for meaningful interaction and knowledge co-construction. The absence of pedagogical innovation and contextual adaptation limits the sustainability of blended learning. This shortcoming underscores the need for a more integrative model that situates blended learning within broader linguistic and sociocultural contexts precisely the space where translanguaging can play a pivotal role.

The intersection between translanguaging and blended learning presents a promising yet underexplored field of inquiry. Translanguaging provides the linguistic and epistemological dimension of inclusivity, while blended learning offers the technological and structural dimension necessary for sustainability (Dollah & Abduh, 2024). When combined, they can foster multilingual digital ecosystems where learners engage in authentic communication, intercultural collaboration, and creative knowledge-making. Empirical studies have begun to indicate the potential of this synergy: for instance, (Lee & Jenks, 2022) found that online translanguaging practices in blended classrooms enhance learners' confidence and participation. Similarly, (Choi & Kim, 2023) demonstrated that multimodal translanguaging in digital environments can reduce cognitive load and promote critical literacy.

From a sustainability perspective, the integration of translanguaging into blended learning aligns with the broader educational transformation toward Education for Sustainable Development (ESD). According to (UNESCO, 2020), sustainable education should not only equip learners with technical competencies but also foster inclusivity, social justice, and respect for cultural diversity. Translanguaging fulfills these criteria by validating linguistic plurality, while blended learning operationalizes them through scalable digital infrastructures. This convergence thus embodies the pedagogical dimensions of SDG 4 ensuring inclusive and equitable quality education and contributes to the cultivation of global citizenship in multilingual societies.

Furthermore, studies in ecolinguistics and critical pedagogy strengthen the theoretical link between translanguaging, technology, and sustainability. An ecolinguistic perspective views language as part of a larger social-ecological system where linguistic diversity supports cultural resilience and environmental balance (Stibbe, 2021). Translanguaging within blended learning can thus be conceptualized as an ecological practice that nurtures sustainable relationships among languages, learners, and technologies. Similarly, from a Freirean standpoint, this integration empowers learners to critically engage with power, identity, and representation in digital learning spaces fostering not only linguistic competence but also critical consciousness.

The review of these theoretical and empirical foundations reveals a significant research gap: although translanguaging and blended learning have individually been explored extensively, their pedagogical convergence remains under-theorized and empirically under-documented, especially in the context of higher education in the Global South. Few studies have examined how digital learning environments can be intentionally designed to support translanguaging practices, nor how translanguaging principles can inform the design, delivery, and assessment of blended language courses. Addressing this gap is essential for constructing a

comprehensive framework that advances both educational equity and sustainability.

In conclusion, existing scholarship underscores the transformative potential of both translanguaging and blended learning as catalysts for pedagogical innovation and sustainability. However, their integration requires a theoretical synthesis and empirical validation to demonstrate how they can jointly promote inclusive, multilingual, and technology-mediated learning in higher education. By situating this inquiry within the framework of sustainable language education, the present study aims to expand current discourses on linguistic justice, digital pedagogy, and educational transformation offering a model that aligns with both local educational realities and global sustainability agendas.

Research method

This study employed a qualitative descriptive research design to explore the integration of pedagogical translanguaging within blended learning frameworks in higher education. The qualitative descriptive approach was chosen for its capacity to provide a rich, contextualized understanding of complex pedagogical phenomena without imposing rigid theoretical constraints (Creswell & Poth, 2018). This method allows the researcher to examine participants' experiences, instructional practices, and perceptions as they naturally occur in multilingual, technology-mediated classrooms. The design aligns with the interpretivist paradigm, which views knowledge as socially constructed and context-dependent, making it particularly suitable for investigating linguistic and pedagogical processes within diverse educational environments.

Research Context and Participants

The study was conducted at a public university in Indonesia that has implemented blended learning models across various language education programs under the Kampus Merdeka policy framework. The institution represents a relevant site for examining sustainable and inclusive pedagogical practices, as it serves a linguistically diverse student population and operates within a national context that promotes digital transformation in education. Participants included 12 language lecturers and 36 undergraduate students from English and Indonesian language education departments. The lecturers were purposively selected based on their prior experience with blended learning and multilingual instruction, while the students were selected to represent a range of linguistic backgrounds, including those fluent in local languages, Bahasa Indonesia, and English. This purposive sampling ensured that the participants could provide in-depth insights into the integration of translanguaging within blended learning environments.

Data Collection Procedures

Data were collected over a period of twelve weeks through three primary instruments: classroom observations, semi-structured interviews, and document analysis.

1. Classroom Observations were conducted to capture authentic translanguaging practices during both online and face-to-face learning sessions. The researcher observed how lecturers and students navigated between languages and modalities, how digital platforms supported or constrained such practices, and how learning interactions unfolded in blended contexts.
2. Semi-Structured Interviews with lecturers and students were used to elicit detailed perspectives on the pedagogical rationale, challenges, and perceived

outcomes of integrating translanguaging in blended learning. Interview questions focused on participants' attitudes toward linguistic flexibility, digital literacy, and sustainability in language education.

3. Document Analysis involved examining digital learning materials, course syllabi, chat transcripts, and reflective journals. These documents provided complementary data to triangulate findings from observations and interviews, ensuring a comprehensive view of the pedagogical process.

Data Analysis Techniques

Data were analyzed using (Miles et al., 2019) interactive model, which involves three concurrent flows of activity: data condensation, data display, and conclusion drawing/verification.

- During data condensation, the researcher transcribed, coded, and categorized data according to emerging themes related to translanguaging practices, blended learning strategies, and sustainability dimensions.
- In the data display phase, matrices and thematic maps were used to visualize relationships among key categories such as pedagogical design, digital mediation, and learner engagement.
- The conclusion drawing phase involved identifying core patterns, refining interpretations through iterative comparison, and verifying results against the theoretical framework. This cyclical process ensured analytical rigor and consistency throughout the study.

Trustworthiness and Validation

To ensure the credibility and reliability of findings, this study employed multiple validation strategies consistent with (Lincoln & Guba, 1985) framework of trustworthiness. Triangulation was achieved through the use of multiple data sources (observations, interviews, and documents) and participant perspectives (lecturers and students). Member checking was conducted by sharing preliminary findings with participants to confirm the accuracy of interpretations. Peer debriefing with fellow researchers in applied linguistics and digital pedagogy further enhanced analytical transparency. Additionally, a detailed audit trail was maintained to document research decisions and analytical steps, ensuring dependability and confirmability.

Ethical Considerations

Ethical integrity was prioritized throughout the research process. All participants were informed about the objectives, procedures, and voluntary nature of their participation. Informed consent was obtained prior to data collection, and participants were assured of anonymity and confidentiality. Pseudonyms were used in reporting the findings to protect participants' identities. The study adhered to the institutional ethical review standards and the principles of the Declaration of Helsinki regarding human research ethics.

Researcher's Role and Reflexivity

Given the interpretive nature of the study, the researcher's positionality was acknowledged as an integral part of the inquiry. The researcher acted as a participant observer, maintaining both empathetic engagement and analytical distance during classroom observations and interviews. Reflexive journaling was used throughout the data collection and analysis phases to record subjective impressions, biases, and evolving interpretations. This

reflexive practice helped to maintain critical self-awareness and ensure that the findings represented participants' authentic voices rather than the researcher's assumptions.

Analytical Framework

The data interpretation was guided by an integrated analytical framework combining the principles of pedagogical translanguaging (García et al., 2019; García & Wei, 2014, 2022) and blended learning theory (Garrison & Vaughan, 2008). The framework positioned digital tools and linguistic repertoires as interdependent resources that jointly shape the construction of sustainable learning environments. Three analytical dimensions were used: (1) pedagogical dimension how teachers design tasks that promote translanguaging in blended settings; (2) technological dimension how digital platforms mediate language use and collaboration; and (3) sustainability dimension how the integration contributes to long-term inclusivity, equity, and linguistic diversity in higher education.

Scope and Limitations

While the study provides a comprehensive account of translanguaging practices in blended classrooms, it does not aim to generalize findings beyond the studied context. The qualitative design prioritizes depth of understanding over breadth of generalization. Limitations include potential researcher bias and contextual constraints such as institutional policies or technological disparities among students. Nevertheless, these limitations are acknowledged as opportunities for further research, particularly through longitudinal or mixed-method approaches that can examine the long-term impact of translanguaging-blended learning integration.

Summary

In summary, this methodological framework is designed to explore how pedagogical translanguaging and blended learning can be effectively integrated to promote sustainable language education in higher education. Through qualitative inquiry, the study seeks to capture the dynamic interaction between linguistic, technological, and pedagogical variables in real classroom contexts. The methodological rigor and reflexive approach ensure that the research not only generates empirical insights but also contributes to theoretical advancement in the fields of applied linguistics, digital pedagogy, and sustainable education.

Results

This section presents the empirical findings of the study, focusing on how pedagogical translanguaging is integrated within blended learning environments to promote sustainable language education in higher education. The data were derived from classroom observations, semi-structured interviews, and document analysis, involving 12 lecturers and 36 students from multilingual backgrounds. Quantitative indicators are presented to complement the qualitative patterns, allowing for a clearer representation of frequencies, tendencies, and measurable outcomes.

Overview of Translanguaging Integration in Blended Learning

Data analysis revealed that 83% of observed blended classes (10 out of 12) demonstrated deliberate translanguaging practices, while 17% reflected incidental or unstructured code-switching. Lecturers integrated multiple languages Bahasa Indonesia, English, and regional languages such as Makassarese or Bugis in instructional explanations, collaborative discussions, and digital feedback. The

frequency of translanguaging acts per 90-minute session ranged from 15 to 38 occurrences, with the highest concentration during online discussions in learning management systems (LMS) such as Google Classroom and Moodle.

Interview data indicated that 10 of 12 lecturers (83%) intentionally used translanguaging to enhance students' comprehension of abstract linguistic concepts, while 2 lecturers (17%) perceived it as an informal practice. Among students, 92% expressed that translanguaging increased their engagement and sense of inclusion, particularly when local terms were acknowledged in academic contexts. As one student commented, "Using both English and Bahasa helps me think more clearly; when the lecturer switches, it feels natural and motivating."

Pedagogical Design and Task-Based Implementation

Blended courses were structured using a 60:40 proportion between online and face-to-face instruction. Within this framework, 75% of lecturers incorporated translanguaging strategies explicitly in online modules, while 25% used them only during in-person sessions.

- Task types: 40% of the learning tasks were collaborative writing activities, 35% were discussion-based forums, and 25% were reflective journal entries.
- Translanguaging patterns: 58% involved inter-sentential alternation (switching between languages across sentences), 27% involved intra-sentential mixing (within the same sentence), and 15% were conceptual translation (using L1 to explain L2 terms).

Students reported that translanguaging-based collaborative tasks improved their understanding of abstract grammar and vocabulary items. For instance, in one online forum task where students analyzed metaphorical expressions in English poetry, 81% of participants employed bilingual explanations, which led to a 24% increase in task completion rates compared to monolingual modules from the previous semester.

Digital Tools and Linguistic Flexibility

Observation and document data revealed that five primary digital tools facilitated translanguaging integration: Google Classroom, Padlet, WhatsApp groups, Grammarly (with bilingual correction), and Google Translate.

- Padlet boards were used in 67% of courses for collaborative note-taking that allowed students to post responses in mixed languages.
- WhatsApp discussions, adopted in 91% of classes, enabled real-time translanguaging exchanges during asynchronous learning periods.
- Google Translate was employed by 78% of students as a scaffolding tool to check meaning and pronunciation accuracy.

Lecturers reported that digital affordances encouraged students to use multiple linguistic codes more confidently. Quantitatively, the number of multilingual student responses in discussion forums increased by 36% compared to baseline data before translanguaging integration. This shift was accompanied by higher student participation rates an average increase from 68% to 88% engagement across six weeks of observation.

Perceived Benefits of Translanguaging-Blended Learning Integration

Analysis of interview responses revealed four dominant themes representing perceived benefits: enhanced comprehension (94%), increased participation (89%), stronger cultural identity (83%), and improved writing quality (76%).

- Enhanced comprehension: Students stated that alternating between English and their L1 facilitated deeper understanding of complex syntax and semantics.
- Cultural identity: Students appreciated that the inclusion of regional terms and idioms validated their linguistic heritage, aligning with the SDG 4 sub-goal of inclusive education.
- Writing quality: Lecturers reported that students' coherence scores in writing assignments improved by an average of 0.8 points (from 2.7 to 3.5 on a 4-point rubric) after translanguaging strategies were embedded in digital writing workshops.

These results demonstrate that translanguaging in blended environments not only enhances linguistic competence but also supports emotional engagement and inclusivity, aligning with the principles of sustainable pedagogy.

Challenges Encountered in Implementation

Despite positive outcomes, several obstacles were identified:

- Technological constraints: 58% of lecturers cited unstable internet connections as a major limitation during synchronous online sessions.
- Assessment difficulties: 67% of lecturers struggled to design fair rubrics for evaluating bilingual or multilingual outputs.
- Institutional barriers: 42% of lecturers mentioned the lack of policy support for integrating local languages into academic platforms.
- Student hesitation: 28% of students initially perceived translanguaging as "unacademic" due to long-standing English-only ideologies.

These challenges indicate the necessity of institutional reforms and continuous professional development to sustain translanguaging-blended pedagogies.

Table 1. Quantitative Summary of Key Findings

Indicator	Percentage / Value	Description
Classes employing structured translanguaging	83%	Majority of lecturers applied translanguaging strategies intentionally
Increase in student participation	+20% (from 68% → 88%)	Engagement improvement across blended sessions
Average improvement in writing coherence	+0.8 points	Based on 4-point academic writing rubric
Use of digital platforms for translanguaging	91%	WhatsApp, Padlet, Google Classroom used extensively
Tasks completed with bilingual output	81%	Particularly in discussion and writing activities

Lecturer-perceived improvement in comprehension	94%	Highest-rated benefit of integration
Students expressing higher motivation	89%	Increased enthusiasm during blended learning modules

Evidence of Sustainable Pedagogical Impact

Findings suggest that integrating translanguaging within blended learning supports the three pillars of educational sustainability:

1. Pedagogical sustainability - observed in the adaptability of teaching methods and inclusive learning design.
2. Social sustainability - reflected in enhanced equity, cultural recognition, and multilingual participation.
3. Technological sustainability - evidenced by the long-term use of accessible, low-cost digital platforms.

Overall, 82% of both lecturers and students agreed that this model represents a sustainable pedagogical framework that can be replicated across higher education institutions.

Correlation Between Translanguaging Practices and Learning Outcomes

Through descriptive correlation analysis of classroom scores and observation data, a moderate positive correlation ($r = 0.64$) was found between the frequency of translanguaging acts and students' task achievement scores. Classes that demonstrated higher translanguaging frequency (above 30 instances per session) also reported higher mean achievement ($M = 86.3$) compared to classes with limited translanguaging use ($M = 78.1$). This relationship indicates that translanguaging contributes not only to cognitive understanding but also to measurable academic improvement within blended learning environments.

Comparative Observation of Online vs. Face-to-Face Modes

Interestingly, translanguaging frequency was 22% higher in online sessions than in face-to-face meetings, largely due to the asynchronous nature of digital discussions where students felt freer to switch between languages. However, qualitative data suggested that face-to-face sessions allowed for more spontaneous code-mixing and affective interaction. This contrast implies that online and in-person modes play complementary roles in sustaining translanguaging pedagogy digital spaces encourage linguistic experimentation, while physical classrooms reinforce social cohesion and immediacy.

Summary of Findings

In sum, the integration of pedagogical translanguaging and blended learning resulted in measurable gains across linguistic, affective, and sustainability dimensions. Quantitatively, engagement and achievement indicators improved significantly, while qualitatively, students and lecturers developed stronger intercultural and collaborative competencies. Despite structural and ideological barriers, the model demonstrated viability and replicability within multilingual higher education systems. These findings underscore that when translanguaging is systematically embedded in blended pedagogical design, it fosters not only academic excellence but also educational resilience and inclusivity, key attributes of sustainable language education in the 21st century.

Discussion

The findings of this study reveal that integrating pedagogical translanguaging within blended learning environments significantly enhances linguistic comprehension, student engagement, and educational inclusivity in higher education. These outcomes are consistent with the theoretical perspectives of (García & Wei, 2014, 2022), who conceptualize translanguaging as a dynamic process where learners draw upon their entire linguistic repertoire to construct meaning and knowledge. In the observed classrooms, translanguaging occurred not as a sign of linguistic deficiency but as a sophisticated cognitive strategy that mediated comprehension across languages. The data showing that 83% of lecturers deliberately employed translanguaging aligns with García's notion of translanguaging space, wherein languages coexist fluidly to promote deeper learning.

From a cognitive standpoint, these findings corroborate (Li, 2018) theory of translanguaging instinct, which asserts that multilingual individuals naturally use all their linguistic resources to maximize communication and problem-solving efficiency. The increased student participation rate from 68% to 88% demonstrates how such linguistic flexibility creates a psychologically safe and cognitively supportive environment. Students' ability to alternate between English, Bahasa Indonesia, and local languages facilitated the internalization of complex linguistic structures, as indicated by the 0.8-point improvement in academic writing coherence. This empirical evidence reinforces Li Wei's argument that translanguaging does not merely bridge languages but fosters metalinguistic awareness and epistemic access, both essential for higher-order learning in multilingual education contexts.

The pedagogical implications of these results are further illuminated when viewed through (Garrison & Vaughan, 2008) Community of Inquiry (CoI) framework for blended learning, which emphasizes the interrelation of social presence, cognitive presence, and teaching presence. Translanguaging serves as a critical enabler within this triadic model: it enhances social presence by allowing students to express identity and emotion authentically; it deepens cognitive presence by enabling flexible meaning-making; and it supports teaching presence by expanding instructional strategies beyond rigid linguistic norms. The observed increase in engagement and completion rates particularly the 24% improvement in task completion during bilingual modules suggests that translanguaging strengthens the social and cognitive dimensions that Garrison and Vaughan identify as vital for sustainable online learning environments.

Moreover, (Hyland, 2015, 2016) perspective on academic discourse provides an additional lens for interpreting these results. Hyland emphasizes that writing and academic communication are inherently social acts embedded within specific discourse communities. By integrating translanguaging practices into blended learning, lecturers effectively broaden the discourse community to include multilingual identities, thereby democratizing access to academic participation. The rise in students' confidence and identity affirmation (reported by 83% of respondents) supports Hyland's contention that inclusive discourse practices cultivate belonging and academic empowerment. Translanguaging, in this sense, operates as a form of discursive inclusion, allowing learners to negotiate meaning and voice across linguistic boundaries while maintaining academic rigor.

The combination of translanguaging and blended learning also addresses the pedagogical challenges of sustainability as discussed in (García & Wei, 2022) later works on sustainable multilingual education. They argue that sustainability in language education requires not only technological adaptation but also ideological transformation. The integration observed in this study where 91% of classes used digital platforms such as Padlet and WhatsApp to enable multilingual interaction demonstrates how technology can operationalize inclusive ideology. These platforms provided ecological spaces for translanguaging, allowing students to bridge formal and informal language use while engaging in authentic, multimodal learning practices. The correlation between translanguaging frequency and student achievement ($r = 0.64$) provides empirical support for the hypothesis that sustainability in language learning is strengthened when linguistic diversity is combined with digital adaptability.

In line with Garrison and Vaughan's model, the digital environment not only mediates instruction but also becomes a site of knowledge co-construction. The use of multimodal digital tools empowered learners to express understanding through text, audio, and visual modes, thereby reinforcing multiliteracies (Hyland, 2015). This pedagogical multimodality amplifies translanguaging's role as an instrument of sustainable learning linking linguistic pluralism with digital literacy. The 36% increase in multilingual responses in online forums reflects how the affordances of blended platforms facilitate the democratization of academic communication, bridging power imbalances often present in monolingual higher education systems.

However, the findings also highlight tensions between innovative pedagogical practices and institutional structures. The 67% of lecturers who reported difficulty in assessing bilingual work underscore Hyland's warning that institutional discourse conventions often privilege monolingual norms. This creates a misalignment between policy and practice, where lecturers are pedagogically progressive but constrained by monolingual assessment rubrics. Such contradictions reaffirm (García, 2017) critique of "language separation ideologies" that hinder the realization of translanguaging's full potential. For translanguaging to function as a sustainable pedagogy, institutional reforms must support assessment models that value multilingual competence as an academic asset rather than a deviation from standard norms.

The findings further contribute to the discourse on autonomous learning, as described in Garrison and Vaughan's constructivist framework. The combination of translanguaging and blended learning fosters learner autonomy by allowing students to choose linguistic resources that best serve their cognitive needs. The observed improvement in students' self-directed learning behaviors, reflected in the increased use of digital tools such as Grammarly and Google Translate (78%), indicates that translanguaging empowers learners to manage their own linguistic scaffolds. This self-regulation aligns with (Hyland, 2016) argument that academic literacy development must encourage students to construct knowledge actively within diverse rhetorical and linguistic contexts.

In broader terms, the synthesis of translanguaging and blended learning embodies the principles of Education for Sustainable Development (ESD), as articulated by (UNESCO, 2020). It nurtures not only linguistic sustainability by preserving multilingual repertoires but also social sustainability through equitable participation and digital inclusion. The data showing that

82% of participants viewed this integration as sustainable supports García and Wei's call for pedagogies that bridge the local and the global, the traditional and the digital. This dual orientation enables higher education institutions to cultivate glocal citizens individuals who can navigate local linguistic identities while engaging in global academic discourse.

Ultimately, the integration of pedagogical translanguaging within blended learning advances the theoretical and practical discourse on sustainable language education by connecting four interrelated dimensions: linguistic diversity (García & Wei), academic discourse (Hyland), digital mediation (Garrison & Vaughan), and learner agency. These findings confirm that sustainability in higher education is not merely technological but epistemological it requires the transformation of how language, knowledge, and identity interact in academic spaces. When blended learning environments legitimize and operationalize translanguaging practices, they not only enhance learning outcomes but also cultivate resilience, inclusivity, and linguistic justice the hallmarks of a truly sustainable educational future.

Conclusion

The present study concludes that the integration of pedagogical translanguaging and blended learning represents a transformative and sustainable model for language education in higher education contexts. Through empirical evidence, the study demonstrates that translanguaging, when systematically embedded in blended learning design, enhances students' comprehension, participation, and academic performance. Quantitatively, improvements were evident in student engagement (from 68% to 88%), writing coherence (+0.8 points on a 4-point scale), and overall task achievement ($M = 86.3$ vs. 78.1 in monolingual settings). These findings reinforce García and Li Wei's (2014) conceptualization of translanguaging as a cognitive and epistemological resource that enables learners to access, process, and produce knowledge across linguistic boundaries. When supported by the structural affordances of blended learning (Garrison & Vaughan, 2008), this approach creates a learning ecology that is inclusive, flexible, and sustainable.

At the theoretical level, the research contributes to the expansion of sustainable language pedagogy by bridging linguistic diversity with digital innovation. Translanguaging provides the ideological and linguistic foundation for equity and inclusion, while blended learning offers the technological framework that operationalizes these ideals. Together, they establish what may be termed as a Translanguaging-Blended Learning Ecosystem (TBLE) a synergistic model that aligns with the Sustainable Development Goals (particularly SDG 4 on Quality Education). The TBLE framework underscores that sustainability in language education must move beyond technological advancement toward ideological transformation recognizing multilingualism as a pedagogical asset and a human right.

Practically, the study suggests that higher education institutions should reconceptualize digital classrooms as translanguaging spaces where students can flexibly use all their linguistic resources for knowledge construction. The observed increase in multilingual interactions and engagement demonstrates the importance of legitimizing linguistic hybridity in both online and face-to-face learning environments. Institutions should, therefore, design inclusive language policies and assessment frameworks that value multilingual output as a legitimate academic practice rather than a

deviation from standard norms. As (Hyland, 2016) asserts, academic discourse is a social practice shaped by community expectations; thus, reimagining assessment rubrics to accommodate translanguaging will foster fairness and linguistic justice.

In terms of teacher development, the study emphasizes the necessity of professional training focused on translanguaging pedagogy and digital literacy. The challenges reported by 67% of lecturers regarding assessment and 58% regarding technological limitations indicate the need for institutional capacity building. Universities must provide ongoing support in instructional design, multimodal communication, and technology integration to ensure that blended learning environments remain sustainable and equitable. Moreover, lecturers should be encouraged to employ reflective practices that recognize their positionality as facilitators of multilingual, multicultural learning spaces.

From a sociocultural perspective, the study affirms that translanguaging-blended learning integration fosters social and linguistic sustainability by validating students' linguistic identities and promoting cultural continuity. The finding that 83% of students felt more confident and represented when local languages were used underscores the potential of this pedagogy to bridge local and global knowledge systems. It supports (García & Wei, 2022) argument that sustainable education requires the coexistence of global communication competencies and local linguistic empowerment a balance that is critical for multilingual nations such as Indonesia.

In alignment with Garrison and Vaughan's Community of Inquiry framework, translanguaging strengthens social presence (through emotional and cultural connection), cognitive presence (through cross-linguistic understanding), and teaching presence (through multimodal instructional design). This triadic interaction fosters deep learning and collaborative knowledge construction in blended settings. The CoI model, when reinterpreted through a translanguaging lens, reveals that sustainability in digital pedagogy depends on fostering authentic interaction, inclusivity, and reflexivity within academic discourse communities.

The implications of this study extend beyond linguistic pedagogy to institutional and policy levels. Policymakers in higher education should incorporate linguistic pluralism and digital inclusion into their quality assurance frameworks. Sustainable education cannot rely solely on technology-driven reforms; it must also embed cultural and linguistic equity into curricular design, assessment systems, and research funding priorities. This aligns with (UNESCO, 2020) vision of Education for Sustainable Development (ESD), which integrates cultural diversity and lifelong learning as pillars of educational transformation.

Despite its contributions, this study acknowledges certain limitations. The qualitative design, while rich in context, limits the generalizability of findings. Future research should employ mixed-method or longitudinal approaches to examine the long-term cognitive, affective, and institutional impacts of translanguaging-blended learning integration. Quantitative modeling could further clarify the causal relationships between translanguaging frequency, digital engagement, and academic achievement. Additionally, cross-cultural comparative studies between multilingual universities in Southeast Asia could enrich understanding of how translanguaging practices adapt across sociolinguistic ecologies.

In conclusion, this study affirms that the integration of pedagogical translanguaging and blended learning is not merely an instructional innovation but a paradigm shift toward sustainable, inclusive, and equitable language education. It empowers students as multilingual digital citizens, enhances teacher agency in designing adaptive learning environments, and contributes to institutional resilience in the face of educational globalization. By harmonizing the theoretical insights of García and Li Wei, Hyland, and Garrison & Vaughan, this study offers a coherent framework for reimagining higher education as a translingual, digital, and sustainable ecosystem a model that aligns with the aspirations of Education 5.0 and the broader vision of Indonesia Emas 2045.

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