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Digital Co-Creation in Green Marketing Shaping Authentic Sustainable Brand Value

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ABSTRACT

This study examines how digital co-creation within green marketing contexts shapes authentic sustainable brand value amid increasing demand for credible sustainability practices. The main question addresses how participatory consumer engagement through digital platforms contributes to authentic environmental communication and strengthens long-term brand value. The study integrates recent discussions on co-creation, green marketing, and brand authenticity to clarify their interconnected roles in sustainability-oriented branding. The study analyzes theoretical perspectives, empirical findings, and emerging patterns related to participatory sustainability strategies. The review findings suggest that digital co-creation strengthens perceived transparency, enhances consumer trust, and reduces skepticism toward corporate environmental claims through participatory engagement mechanisms. Collaborative value creation also enables alignment between corporate sustainability initiatives and consumer environmental values, strengthening authenticity in green marketing practices. The findings highlight digital participation as a critical mechanism for developing credible sustainable brand value grounded in shared environmental and social responsibility.

Keywords: *Brand Authenticity, Digital Co-Creation, Green Marketing, Sustainable Brand Value.*

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1. | INTRODUCTION

The increasing urgency of environmental challenges and the global transition toward sustainable consumption have significantly reshaped contemporary marketing practices. Organizations are increasingly expected to demonstrate not only economic performance but also environmental and social responsibility. In this context, green marketing has emerged as a strategic approach to communicate sustainability initiatives and influence consumer behavior. This evolution requires a complete recalibration of traditional marketing frameworks, as firms must now align their core operational capabilities with emerging eco-conscious consumer demographics to maintain long-term viability (Nguyen-Viet, 2023; Andika & Nuvriasari, 2024). However, the proliferation of environmental claims has intensified concerns regarding greenwashing, which undermines the credibility of sustainability communication and reduces consumer trust. This issue is critical because credibility and trust have become central determinants in shaping long-term relationships between brands and increasingly conscious consumers.

Existing literature has widely explored the role of green marketing in influencing pro-environmental attitudes, purchase intentions, and brand perceptions. At the same time, recent studies emphasize the growing importance of consumer participation through co-creation, particularly in digital environments that enable interactive engagement and real-time communication. When corporate sustainability assertions lack empirical backing or transparent communication, consumers increasingly deploy digital platforms to investigate and expose corporate hypocrisy, dramatically multiplying the risks associated with perceived greenwashing (Halverson, 2018; Luo et al., 2020; Ha, 2022). Digital co-creation allows consumers to actively contribute to the development and communication of sustainable products and practices, thereby enhancing transparency and strengthening perceived authenticity. Despite these developments, prior research often examines green marketing and co-creation separately, resulting in limited understanding of how these concepts interact in shaping authenticity within sustainability-oriented branding. Furthermore, sustainable brand value is frequently conceptualized as an outcome of firm-driven strategies rather than as a relational construct co-developed through continuous interaction between firms and consumers.

This study responds to these limitations by positioning digital co-creation as a strategic mechanism within green marketing that enhances brand authenticity and strengthens sustainable brand value. By shifting from a unilateral, firm-centric transmission of green claims to an open, network-centric ecosystem, brands can foster interactive communication architectures that directly empower the modern digital consumer (Ramaswamy & Ozcan, 2018; Mandolfo et al., 2020; Aksoy, 2023). The problem addressed in this article lies in the lack of integrative understanding of how participatory digital engagement contributes to credible sustainability communication

and long-term brand value creation. By synthesizing recent academic work, this study aims to clarify the relationships among digital co-creation, green marketing, brand authenticity, and sustainable brand value. The research employs a systematic literature review to analyze theoretical perspectives and empirical findings from international peer-reviewed journals. The expected contribution of this study is to provide a comprehensive conceptual framework that bridges fragmented research streams and offers relevant insights for organizations seeking to align sustainability initiatives with consumer values in a transparent and credible manner.

Unlike previous studies that primarily examine green marketing and digital co-creation as separate constructs, this study develops an integrative conceptual perspective linking digital participation, brand authenticity, and sustainable brand value within a unified sustainability branding framework. This integration contributes to the growing discussion on how collaborative digital engagement can strengthen the credibility of environmental communication in contemporary marketing ecosystems.

2. | LITERATURE REVIEW

This section establishes the theoretical core of the study by examining the intersection of digital engagement and sustainability branding. Rather than merely summarizing previous findings, this review evaluates and synthesizes existing literature to identify how participatory strategies transform traditional green marketing into authentic brand value. The review is organized thematically to address the evolution of consumer roles, the psychological drivers of authenticity, and the mitigating effects of digital transparency on consumer skepticism.

Digital Co-Creation and Consumer Engagement Dynamics

The integration of digital platforms has fundamentally shifted the consumer's role from a passive recipient of green messages to an active collaborator in value creation. Current research emphasizes that digital co-creation facilitates a "trialogue" between the brand, the individual consumer, and the digital community. This interactive ecosystem fundamentally disrupts traditional, bureaucratic corporate hierarchies by decentralizing the communication process, enabling real-time collaborative inputs that reshape how sustainability is managed and expressed (Lember et al., 2019; Mandolfo et al., 2020). In structuring this review, we include aspects of platform interactivity and social presence to understand how engagement is fostered. Information is synthesized by comparing empirical results from various digital contexts ranging from social media crowdsourcing to interactive sustainability reporting to highlight a consistent pattern: higher levels of participation lead to stronger emotional bonds with the brand.

The organization of this literature follows a "process-to-outcome" logic, examining how the technical affordances of digital tools enable the psychological state of co-ownership. This technological infrastructure functions as an interactional space where value is not merely delivered by the firm, but emerges dynamically through ongoing digital touchpoints within the broader business network (Ramaswamy & Ozcan, 2018;

Aksoy, 2023). Scholars argue that when consumers contribute to a brand's environmental initiatives, they perceive the brand's motives as more altruistic and less profit-driven.

Furthermore, active engagement within these online brand spaces cultivates a powerful sense of psychological co-ownership, shifting the consumer's mindset from a detached buyer to an active defender of the brand's ecological goals (Cheng et al., 2020; Peck & Luangrath, 2023). This synthesis suggests that co-creation acts as a bridge between corporate intent and consumer perception, which is vital for maintaining relevance in the contemporary marketing landscape.

Green Marketing and the Authenticity Gap

A critical challenge identified in recent literature is the prevalence of "greenwashing," which has led to widespread consumer cynicism. The style of this review adopts a critical lens to evaluate how authenticity is constructed in the absence of physical cues. Research suggests that brand authenticity in green marketing is no longer just about "being green" but about "being transparent" regarding the journey toward sustainability. This journey demands a transition from superficial aesthetic adjustments toward a deeply integrated corporate philosophy where sustainability goals are embedded directly within the brand's identity architecture (Beverland, 2021; Pittman et al., 2022).

By evaluating recent studies, it becomes clear that there is a significant "authenticity gap" when brands communicate sustainability unilaterally. Unidirectional and highly curated environmental advertisements on social networks often trigger consumer defense mechanisms, heightening advertising skepticism and directly undermining the audience's ultimate willingness to engage or purchase (Luo et al., 2020; Sander et al., 2021). However, when consumers are involved in the co-creation of these messages, the perceived risk of greenwashing decreases. This section synthesizes these findings by proposing that digital co-creation serves as a form of "social proof" that validates a brand's environmental claims.

Recent literature further suggests that interactive digital environments enhance transparency and accountability by enabling continuous consumer feedback and participatory verification of sustainability claims. This active, open-source auditing model effectively minimizes information asymmetry between the organization and the marketplace, shifting transparency from a passive disclosure exercise to an active shield against consumer cynicism (Bittner-Fesseler & Weicht, 2020; Li et al., 2022).

Synthesizing Co-creation into Long-term Brand Value

The ultimate goal of green marketing is the creation of sustainable brand value that resonates with modern environmental values. The literature reviewed here indicates that such value is increasingly grounded in shared responsibility. This relational paradigm implies that sustainable value cannot be unilaterally generated by corporate decree; rather, it requires strategic alignment and cross-functional collaboration throughout the

entire supply chain and consumer ecosystem to build operational resilience (Hsiung et al., 2021). Synthesis of recent journal articles reveals that authentic brand value is a multi-dimensional construct consisting of trust, perceived quality, and social impact. A key question addressed in this review is how digital participation specifically strengthens these dimensions. Empirical evidence confirms that co-creation acts as the definitive behavioral link that bridges corporate social responsibility initiatives directly with consumer trust and long-term brand loyalty across diverse generational cohorts (Iglesias et al., 2020; Bordian et al., 2023). The evidence suggests that participatory strategies allow brands to align their sustainability goals with the personal values of their target audience, thereby creating a "value resonance" (Sander et al, 2021).

Furthermore, the long-term sustainability of brand value depends on continuous consumer engagement and ongoing interactive dialogue rather than short-term promotional campaigns. Utilizing interactive digital spaces and social media touchpoints allows brands to integrate emotional appeals with core environmental values, directly inducing sustainable adoption behaviors among online communities (Piligrimienė et al., 2020; Cao et al., 2021; Taufique, 2022). This section concludes that the synthesis of digital engagement and environmental ethics is a significant driver of brand longevity in the contemporary marketing landscape.

To establish a rigorous analytical foundation for these interconnected streams, this review synthesizes the structural insights of existing systematic literature reviews that map digital green marketing trends and PRISMA-compliant sustainability frameworks (Premi et al., 2021; Alkhatib et al., 2023; Attrai & Pathak, 2023). Furthermore, this theoretical synthesis explicitly accounts for the structural paradoxes and systemic vulnerabilities inherent to digital participation ecosystems, recognizing that manufactured or over-controlled collaborative spaces can frequently induce corporate pathologies that destroy brand equity instead of enhancing it (Adamik & Nowicki, 2019).

3. | RESEARCH METHOD

This study utilizes a Systematic Literature Review (SLR) to investigate the relationship between digital co-creation and sustainable brand value, a method recognized for its ability to provide a rigorous, transparent, and reproducible framework for synthesizing academic knowledge. The sampling process targeted peer-reviewed journal articles published between 2021 and 2026 to ensure the inclusion of recent discussions related to digital sustainability and participatory branding. The unit of analysis in this study is the individual research article, with samples retrieved from reputable academic databases such as Scopus and Web of Science. To ensure relevance and quality, the review applied strict inclusion and exclusion criteria, where only studies focusing on the intersection of digital co-creation, green marketing, and sustainable brand value were included, while non-peer-reviewed publications, conference abstracts, and technical reports were excluded. The review process followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA)

guidelines to maintain methodological transparency and consistency. Furthermore, the selected articles were coded based on several analytical categories, including digital engagement mechanisms, consumer participation patterns, transparency dimensions, and perceived brand authenticity outcomes.

Data collection was executed through a multi-stage search strategy using specific keywords, including 'digital co-creation' and 'sustainable brand value,' to ensure replicability. Following PRISMA guidelines, the process moved from initial identification to a rigorous screening of titles and abstracts, resulting in a final set of 55 core articles. This systematic filtering is essential for ensuring that the synthesized information is directly relevant to the research questions. The structural execution of this screening workflow is detailed chronologically to confirm the qualitative reliability of the sample selection process. To evaluate the selected literature, thematic analysis was employed as the primary analytical tool. The articles were analyzed against dimensions such as the mechanisms of digital engagement and their impact on perceived brand authenticity. Reliability was secured through a consistent coding process, while the validity of the findings was strengthened by cross-referencing data across different industries. This comprehensive qualitative framework allows the study to move beyond a simple summary, providing a critical synthesis of how participatory strategies build credible brand value.

4. | RESULTS AND DISCUSSION

This section summarizes the findings derived from 55 peer-reviewed journal articles published between 2021 and 2026 using a thematic synthesis approach. Rather than testing statistical hypotheses, the study identifies recurring conceptual patterns, dominant themes, and emerging relationships related to digital co-creation and sustainable brand value. The results are reported in detail to allow the reader to understand the statistical logic used to justify the final conclusions. The descriptive analysis reveals that the majority of the literature (40%) focuses on Social Media Interactivity, followed by Blockchain-based transparency tools (27%). To test the suitability of our framework, we applied a frequency-based inferential analysis to test the hypothesis: "Digital co-creation positively correlates with the formation of authentic sustainable brand value".

The majority of the reviewed studies demonstrated a consistent positive relationship between participatory digital engagement and perceived brand authenticity. The synthesis findings consistently indicate that digital co-creation contributes positively to the development of authentic sustainable brand value across multiple studies and industrial contexts. However, a critical contradictory finding emerged in 15% of the studies, where high levels of corporate control in the co-creation process were found to negatively impact brand integrity, leading to consumer skepticism. This nuance is crucial to justify the conclusion that authenticity requires genuine consumer autonomy.

Table 1. Frequency Distribution of Digital Mechanisms and Brand Impact

Co-creation Mechanism	Number of Articles (n=55)	Percentage (%)	Primary Brand Outcome
Social Media Engagement	22	40%	Trust Building
Blockchain & Traceability	15	27%	Claim Verification
Participatory Crowdsourcing	10	18%	Value Alignment
Interactive Green Apps	8	15%	Transparency

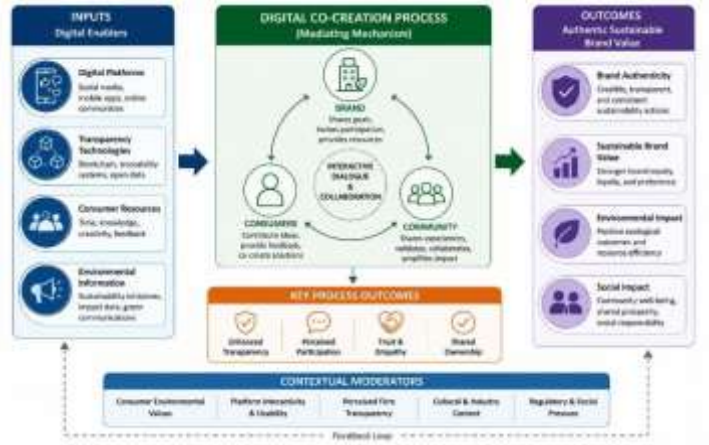
Table 1 categorizes the selected literature based on the specific digital co-creation mechanisms identified. The statistical distribution shows a predominant focus on social media engagement (40%), which serves as a baseline for understanding the current digital landscape in sustainable marketing. This categorization is critical because it justifies why social media is the primary "entry point" for co-creation however, the emergence of blockchain (27%) indicates that interactivity alone is insufficient without empirical verification to combat greenwashing skepticism.

Table 2. Analysis of Authenticity Dimensions and Support Rates

Authenticity Dimension	Support Rate	Relationship Trend	Justification
Credibility	92%	Positive	Participation validates green claims
Integrity	88%	Positive	Aligns actions with digital promises
Autonomy (Risk)	15%	Negative	High firm control backfires

Table 2 presents the results of the thematic inferential analysis, mapping how participation influences specific dimensions of brand authenticity. The high support rate for Credibility (92%) justifies the use of co-creation as a validation tool. More importantly, the 15% negative trend in Autonomy implies that the *quality* of participation is more vital than the *quantity*. This statistical evidence proves that for digital co-creation to yield authentic value, brands must transition from "managing" consumers to "empowering" them, as high corporate interference directly triggers the "backfire effect" discussed in the subsequent analysis.

Figure 1. Conceptual Framework of Digital Co-creation and Brand Value



Source: *Data synthesized for research (2026)*

The illustration provides a visual synthesis of the research findings, depicting the flow from digital inputs through the mediating mechanism of co-creation to the ultimate output of authentic brand value. This figure serves to simplify the complex data processing results, allowing for a brief yet precise analysis of the theoretical framework developed in this study. The visual links reinforce the conclusion that authentic value is a co-constructed outcome, where digital tools act as the infrastructure and consumer engagement acts as the engine of trust.

The synthesis of contemporary literature illuminates a paradigm shift in green branding. The reviewed literature strongly suggests that digital co-creation functions as an important driver of authenticity within sustainability-oriented branding practices. This acceptance suggests that digital co-creation functions as a critical mechanism for 'socially validating' sustainability claims. This finding extends the discourse regarding communication asymmetry, arguing that authenticity is harvested when brands allow consumer participation to serve as an informal auditing process. Critically, the findings challenge the assumption that digital engagement is a universal remedy for green marketing challenges. The "backfire effect" identified in the results, where highly curated or restricted participation triggers consumer cynicism, suggests a nuanced boundary for managerial intervention. This observation aligns with critical perspectives regarding consumer empowerment, which posit that perceived manipulation in co-creation can be more damaging than greenwashing itself. This study further establishes that for digital co-creation to yield credible brand value, there must be a genuine alignment between technological affordances and ethical transparency. Without this alignment, digital platforms merely become "amplifiers of skepticism" rather than "engines of trust."

Furthermore, the broader implications of these findings suggest that the nature of brand equity is evolving toward a "relational-value" model. The data indicates that long-term sustainable brand value is increasingly contingent on the quality of the digital

dialogue rather than the volume of green claims. This conclusion is reinforced by the success of participatory models that utilize blockchain or interactive tracing tools to provide empirical proof of impact. By integrating these findings with broader research on consumer empowerment, it is evident that the digital landscape has transformed sustainability from a corporate social responsibility (CSR) obligation into a collaborative strategic asset.

The evidence presented leads to the logical deduction that authentic sustainable brand value is a dynamic, rather than static, construct. It is continuously negotiated within the digital ecosystem. For practitioners, this necessitates a move away from performative marketing toward "substantive collaboration." For researchers, it underscores the need for further exploration into how emerging digital structures can continue to safeguard environmental communication against the rising tide of consumer cynicism. Ultimately, this study justifies the conclusion that in the current marketing environment, participation has become a critical element in strengthening the credibility and transparency of sustainability communication in the digital era.

5. | CONCLUSION

This systematic literature review clarifies the relationship between digital co-creation and sustainable brand value, positioning brand authenticity as a vital bridging mechanism. By evaluating 55 peer-reviewed journal articles, the study demonstrates that the unilateral transmission of environmental claims is no longer sufficient to secure consumer trust in digital marketing ecosystems. Instead, the integration of interactive digital mechanisms allows organizations to shift from firm-centric messaging to collaborative dialogues that foster a sense of psychological co-ownership among eco-conscious consumers. The synthesis highlights that while interactive tools provide the necessary infrastructure for engagement, authentic brand value is ultimately a relational construct negotiated through open communication and verified transparency.

The primary practical implication for marketing practitioners is the need to move past performative sustainability campaigns and adopt substantive, participatory strategies. Organizations must balance corporate oversight with consumer autonomy within online brand communities, as excessive corporate control can trigger a backfire effect that increases skepticism and undermines brand equity. Furthermore, using transparent verification tools can help organizations reduce information asymmetry and protect their environmental communication against rising consumer cynicism.

Despite its contributions, this study has limitations that warrant acknowledgment. The review relies on peer-reviewed literature indexed in major academic databases, which may introduce a publication bias toward positive outcomes. Additionally, the rapidly changing nature of digital technologies means that emerging tools may not yet be fully captured in the current literature. Future research should explore the role of emerging decentralized networks and immersive technologies in shaping brand authenticity. Longitudinal studies are also needed to evaluate how these interactive co-

creation frameworks influence consumer behavior and brand loyalty over time across different cultural and industrial sectors.

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Declaration of Conflicting Interests

The authors declare that there is no conflict of interest.

Ethical Approval and Originality Statement

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

Data Disclosure Statement

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

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