IJEC
International Journal of Economics
https://ejournal.ipinternasional.com/index.php/ijec
e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

Metaverse Marketing: A Critical Analysis of the Potential and Challenges of Marketing in Virtual Worlds

Syaifuddin[1], Vu Van Huong[2]
[1]Universitas Sebelas April, Sumedang, Indonesia
[2]Vietnam National University, Vietnam
Corresponding email; syaifuddin.feb.@unsap.ac.id ac
Article history: Received June 28, 2025; revised July 7, 2025; accepted July 17, 2025
This article is licensed under a Creative Commons Attribution 4.0 International License

Abstract

The emergence of the metaverse as an immersive three-dimensional virtual space marks a new phase in the global digital transformation. Behind the enthusiasm for its innovative potential, marketing strategies in the metaverse face unresolved issues, particularly related to digital literacy gaps, the absence of specific biometric regulatory frameworks, and the lack of organizational readiness to manage brand-consumer interactions in the virtual world. This complexity creates a gap between the appeal of technology and the reality of digital marketing implementation in the metaverse. This study systematically examines the potential and challenges of metaverse marketing and its implications for the success of brand communication strategies. A Systematic Literature Review (SLR) with a descriptive qualitative approach was used. Literature was obtained from reputable academic databases, such as Scopus, ScienceDirect, Emerald Insight, SpringerLink, and SINTA. The reviewed articles were scientific publications in Indonesian and English relevant to digital marketing, data protection, and metaverse ecosystem development. Article selection was conducted through an initial screening of titles and abstracts, followed by thorough reading of the article content. This resulted in 35 primary sources analyzed through thematic synthesis based on the PRISMA protocol and Kitchenham framework. The findings indicate that the metaverse offers strategic opportunities for creating immersive and community-based brand experiences. However, the effectiveness of digital marketing strategies depends heavily on an organization's ability to navigate challenges related to privacy, avatar ethics, and technological limitations. Therefore, a holistic approach integrating innovation, ethics, and infrastructure readiness is required to ensure successful marketing.

Keywords: *Metaverse Marketing, Digital Marketing Strategies, Technological Challenges, Data Regulation.*

INTRODUCTION

As an immersive three-dimensional virtual space, the metaverse now represents a symbol of global digital transformation that drives significant shifts in social, economic, and consumption patterns. This phenomenon changes how individuals interact, create, and conduct transactions in an increasingly integrated digital environment (Lu & Mintz, 2023; Yang, Xu, & Hui, 2024). According to a Bloomberg Intelligence report, the metaverse market is projected to reach USD 800 billion by 2024 and grow with widespread adoption in entertainment, education, and commerce (Kanterman & Naidu, 2021; Strategic Market Research, 2024). In marketing, these changes drive global brands such as Nike, Gucci, and Samsung to adopt strategies that prioritize immersive experiences based on virtual spaces to deepen their relationships with digital consumers (Rathore, 2023; Chhabra, 2024).

However, behind the euphoria surrounding the adoption of the metaverse in marketing practices, structural issues are yet to be fully addressed in the literature. There is an apparent disparity between the strategic potential of the metaverse as an experience-based marketing platform and the ethical, regulatory, and infrastructural readiness for widespread and inclusive implementation. Although the potential of immersive experiences, personalization, and digital community formation has been proven to enhance consumer engagement, the realization of these benefits remains constrained by several systemic challenges (Syaifuddin & Yuswanto, 2022). These include risks of biometric data privacy breaches, digital identity manipulation through avatars, low digital literacy, and weak consumer protection in a borderless virtual environment (Di

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

Pietro & Cresci, 2022; Alkaeed et al., 2023).

Additionally, the academic literature gap indicates that previous studies have primarily focused on technological aspects and user experience within the metaverse context, while strategic, ethical, and public policy dimensions remain under explored. As a result, many metaverse marketing strategies are implemented experimentally without the foundation of long-term trust, which risks reputational damage and consumer reluctance toactively participate in these virtual spaces.

Marketing in the metaverse has become an academic urgency because it demonstrates fundamental changes in the behavior of the digital generation, particularly Gen Z and millennials, who are beginning to prioritize self-representation and ownership of digital assets, such as avatars and NFTs, over conventional forms of identity (Xi et al., 2024; Dewalska-Opitek & Szejniuk, 2024). Two-dimensional platforms, such as Instagram and TikTok, are increasingly seen as inadequate to meet the multisensory interaction needs now offered by the metaverse (Chhabra, 2024). A study by Vice & Razorfish (2022) even noted that Gen Z increasingly feels their 'true selves' are represented in digital spaces rather than the physical world. The root of this problem lies in the current marketing ecosystem not being fully prepared to address the new demands for real-time, participatory, and ethical brand presence in virtual spaces.

This study examined two main variables: the potential and challenges of marketing in the metaverse. Potential includes opportunities to create emotional engagement (user engagement), sensory-based brand experiences (brand immersion), and monetization through new digital economies (Lu & Mintz, 2023; Kaur, 2023). Challenges include privacy and data security issues, infrastructure access limitations, and regulatory readiness differences across countries (Alkaeed et al., 2023; Yang, Xu, & Hui, 2024). The relationship between these two is dynamic and requires a critical approach that is not only technology-based, but also encompasses social, ethical, and public policy aspects.

Although previous studies have examined the adoption of XR technology, user experiences, and interaction design within the metaverse context (Lee & Kim, 2021; Xi et al., 2024), systematic research that simultaneously integrates the dimensions of potential and challenges within a strategic marketing framework remains scarce. Regulatory aspects, such as GDPR and Zero Trust-based digital security approaches, have also not been a primary focus in metaverse marketing studies. This creates a significant theoretical gap that risks, if left unaddressed, resulting in brand communication policies and unresponsive strategies to evolving digital reality.

Based on identifying these gaps, this study introduces a novel critical synthesis approach that integrates the potential and challenges of metaverse marketing into a comprehensive theoretical framework. Theoretically, this study is expected to enrich the discourse on immersive and participatory digital marketing as it can serve as a reference for marketers, digital platform developers, and policymakers in designing inclusive, ethical, and adaptive brand communication strategies. The main objectives of this study are (1) to map and identify strategic opportunities and challenges in metaverse marketing, (2) to critically analyze the interrelationships of these variables across disciplines, and (3) to formulate innovative and sustainable marketing strategy recommendations for navigating the participatory digital economy era.

LITERATURE REVIEW

Marketing in the Context of the Metaverse

Metaverse marketing refers to digital marketing strategies implemented in a metaverse environment an immersive, interactive, and decentralized virtual space. Unlike conventional digital platforms, metaverse marketing no longer relies on two-dimensional formats or one-way interactions. Instead, it involves avatar-based participatory experiences, gamification elements, digital assets, such as NFTs, and virtual economic environments (Dwivedi et al., 2023). Metaverse marketing allows companies to create more immersive *brand experiences* which consumers can simultaneously interact with brands in spatial, social, and emotional formats. Metaverse marketing models are based on *immersive engagement*, *presence-based branding*, and *social co-creation* principles. In this context, marketers deliver messages, build worlds, create stories, and actively engage users in social interactions in a virtual economic ecosystem (Kapoor et al., 2023). Therefore, to understand how this strategy can be successful, an in-depth study of two key variables is required: the potential and challenges of metaverse marketing.

Marketing Potential in the Metaverse

Marketing potential in the metaverse refers to a range of strategic opportunities that marketers can utilize to increase consumer engagement, strengthen brand experiences, and create new digital economic value. Virtual

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

Reality (VR), Augmented Reality (AR), and Artificial Intelligence (AI) technologies enable brands to deliver experiences that are not only informative but also emotional and interactive. Khan et al. (2025) showed that immersive marketing content significantly increases *engagement* and *purchase intention*, especially when narrative and personalized.

The concept of *brand immersion* in virtual spaces has been explained through the *Metaverse Engagement Model*, which emphasizes that *telepresence* and *interactivity* are strong predictors of creating emotional connections between users and brands (Pfeiffer et al., 2024). Rane et al. (2023) added that avatar personalization and real-time interaction can strengthen brand memory and foster consumers' psychological attachment. Thus, the potential of the metaverse in marketing lies in its ability to bring together experience, community, and technology in an immersive digital consumption space.

Marketing Challenges in the Metaverse

Despite their huge potential, marketers are facing serious challenges. One of the most important issues is the rivacy and security of the data. The metaverse enables the tracking of biometrics, such as facial expressions, eye movements, and body gestures, which, if not managed ethically, could potentially be misused for profiling and hyper-personalized advertising (Nair et al., 2022). A global survey conducted by S&P (2023) showed that more than 70% of users are uncomfortable with the intensity of data collected by metaverse platforms.

Another challenge is related to regulations and ethics. Legal frameworks such as the General Data Protection Regulation (GDPR) do not explicitly regulate avatar-based virtual interactions or token-based economic transactions (Rahartomo et al., 2025). Additionally, the risk of using deepfake technology for brand identity impersonation adds to the ethical complexities faced by marketers must face (Tariq et al., 2023). The absence of interoperability standards also leads to difficulties in designing cross-platform marketing strategies for various metaverses.

Finally, there are infrastructure barriers to the adoption of metaverse technologies. The high cost of hardware such as VR headsets and the need for high-speed Internet connections are significant barriers to the inclusivity of metaverse-based marketing strategies, especially in developing countries (InsightTrendsWorld, 2025). Without adequate access, brand messages will not be optimized and may exacerbate digital inequality.

Theoretical Synthesis and Strategic Implications

The combination of marketing potential and challenges in the metaverse requires marketers to have an approach that is not only innovative, but also ethical and strategic. Based on *Brand Community* theory (Muniz & O'Guinn, 2001) and *Social Identity Theory*, the relationship between consumers and brands can be strengthened through avatar-based community interactions and shared experiences. However, *Digital Privacy and Risk* theory also emphasize balancing technological innovation and consumer protection.

The strategic implication is that marketing success in the metaverse depends on companies' ability to design engaging yet ethical digital experiences supported by adaptive regulations and inclusive infrastructure. Therefore, an in-depth understanding of the potential and challenges of these two variables is important for formulating a sustainable marketing strategy in the metaverse.

The Relationship of Metaverse Marketing Potential to Digital Marketing Strategy Success

Metaverse has changed its marketing paradigm by introducing virtual spaces that offer immersive, participatory, and digital social interaction-based experiences. In this context, the marketing potential of the metaverse refers to various strategic elements such as brand immersion, high engagement, gamification, and avatar-based community building. According to *Experiential Marketing* theory (Schmitt, 1999), creating immersive and meaningful experiences can strengthen consumers' positive brand perceptions and increase loyalty. This is further reinforced by the *Telepresence Theory* approach, which states that full user involvement in a digital environment increases message absorption and affective relationships with brands (Pfeiffer et al., 2024).

Previous research shows that brands that can build emotional engagement through the metaverse tend to gain higher loyalty and purchase intention (Rane et al., 2023). This approach allows brands to be present as passive entities and to become part of a living and interactive social ecosystem. Therefore, the higher the utilization of metaverse potential, the greater the influence on the success of digital marketing strategies.

H1: The higher the metaverse marketing potential, the higher the success of the digital marketing strategy.

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

The Relationship of Metaverse Marketing Challenges to a Successful Digital Marketing Strategy

Despite the immense opportunities offered by the metaverse, significant challenges can hinder successful implementation of digital strategies. Some of these include issues of privacy and security of biometric data, nonadaptive regulations, risk of misuse of technology (such as deepfake), and limited access infrastructure. In the context of *Technology Acceptance Model* (Davis, 1989), perceived risk and legal uncertainty can reduce users' intention to participate in digital interactions, including marketing activities. This creates resistance in both consumers and companies.

Institutional Theory explains that regulatory or public policy unpreparedness in response to technological advances hinders the legitimacy of innovation implementation. When companies do not have an explicit guarantee of legal protection in a virtual environment, the courage to innovate marketing strategies also decreases. Barriers to cost and access to technology, especially in developing countries, also increase the gap between the potential and realization of metaverse-based digital strategies.

Existing literature and theories suggest that the greater the challenges faced in metaverse marketing, the lower the level of effectiveness of the digital strategy implemented by the company.

H2: The higher the metaverse marketing challenges, the lower the success of digital marketing strategies.

METHODOLOGY

This study uses a descriptive qualitative approach based on a Systematic Literature Review (SLR) to examine the potential and challenges of marketing in the metaverse and its implications for digital marketing strategies. This approach was chosen because it can systematically synthesize various empirical and conceptual findings and map theory development in a structured manner (Snyder, 2019). Through SLR, researchers can organize multiple scholarly sources with high transparency and replicability, which is important for building a strong and thorough theoretical argument. As such, this research goes beyond analyzing previous findings and constructs a conceptual narrative to explain the relationships between variables in greater depth (Yakin at al, 2023).

Techniques and Stages of Literature Review

The literature review process in this study followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) framework and the SLR stages formulated by Kitchenham (2004), which included the identification of research questions, search strategy, inclusion-exclusion criteria, and literature analysis and synthesis. The main questions focused on in this review are: (1) What are the main dimensions of marketing potential in the metaverse? (2) What are the significant challenges in implementing metaverse marketing strategies? (3) How do these challenges relate to the success of digital marketing strategies?

The search strategy was conducted by searching academic literature in reputable databases such as Scopus, ScienceDirect, SpringerLink, Wiley Online Library, Emerald Insight, and Google Scholar, as well as national databases such as SINTA and Garuda. The search was conducted using a combination of keywords and Boolean operators: ("metaverse marketing" OR "virtual marketing strategy") AND ("brand engagement" OR "immersive experience") AND ("privacy" OR "digital risk" OR "regulation") AND ("digital marketing strategy"), adjusted for context relevance. This process resulted in 152 articles that were screened further.

Article selection was conducted in two stages: first, screening based on the title and abstract, and second, a thorough reading of the content of eligible articles. The inclusion criteria included articles in English or Indonesian and substantially addressed topics relevant to the research variables, such as metaverse marketing, digital strategy, privacy, and regulation. Articles not available in full access were opinionated or did not fit the thematic focus of the research, and were eliminated from the review. After this process, 35 key articles were obtained for central review.

The analysis was conducted using a thematic content analysis approach by identifying and categorizing the central themes of each article, such as marketing potential (engagement, gamification, and community), marketing challenges (privacy, regulation, and technological barriers), and adaptive strategies. Synthesis was done narratively and analytically by integrating the various research results into one conceptual framework to show how the variables interact and form the conceptual basis of this research (Boell & Cecez-Kecmanovic, 2015).

Data Validity and Credibility

The validity of this study is ensured through source selection, which only comes from international and national

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

reputable scientific journals, as well as reports from leading research institutions, such as Bloomberg, McKinsey, S&P Global, and Deloitte. To ensure the credibility of the data, source triangulation was conducted by comparing findings from various geographical, methodological, and theoretical perspectives to obtain a more comprehensive understanding. This approach is also in line with the principle of trustworthiness in qualitative research, which emphasizes credibility, dependability, and confirmability (Lincoln & Guba, 1985).

RESEARCH RESULTS AND DISCUSSION

This study aims to systematically examine the potential and challenges of marketing in the metaverse and its implications for digital marketing strategies. Based on the analysis of 35 selected scholarly articles, three key themes were found to be intertwined: (1) the strategic potential of the metaverse as an immersive marketing medium; (2) the complexity of ethical, technological, and regulatory challenges that hinder its optimization; and (3) the synergies and conflicts between potentials and challenges in influencing the effectiveness of contemporary digital marketing strategies.

Metaverse Marketing Potential

The potential of metaverse marketing lies in its ability to deliver immersive, interactive, and community-based digital experiences. Technologies, such as VR, AR, and AI, enrich consumer interactions with brands by incorporating narrative, sensory, and participatory elements. Khan et al. (2025) confirm that VR-based marketing content packaged narratively can significantly increase engagement and purchase intention. In addition, this approach extends the duration of consumer exposure to brand messages and strengthens the affective memories of the brand.

The Metaverse Engagement model developed by Pfeiffer et al. (2024) explains that telepresence and interactivity are key predictors of emotional attachment in digital environments. In this case, the use of personal avatars, virtual community spaces, and gamification elements increased active user participation. Rane et al. (2023) showed that consumers who interact in avatar-based communities are more likely to exhibit brand loyalty and repeat purchase intention. Therefore, the metaverse can generate new brand value derived from social identity, not just from product functionality.

Metaverse Marketing Challenge

Despite its promising potential, the implementation of metaverse marketing faces substantial challenges. First, privacy and data security are important issues. If not adequately controlled, collecting biometric data such as facial expressions, body gestures, and gaze patterns can be used for in-depth profiling. Nair et al. (2022) and Chen et al. (2023) highlighted the risk of misuse of these data in the context of hyper-personalized advertising or digital ethics violations.

Second, the absence of a specific legal framework for virtual spaces leads to regulatory ambiguities. Frameworks such as the GDPR do not fully regulate avatar-based digital transactions or asset tokenization. Rahartomo et al. (2025) stated that the lag of public policy in responding to technological innovation hinders the legitimacy and acceptability of marketing strategies. Third, infrastructure limitations, such as the high price of VR headsets and high bandwidth requirements for access by consumers from regions with low digital infrastructure, widen the participation gap (Insight Trends World, 2025).

Linkage of Potential and Challenges to Digital Marketing Strategy

The synthesis shows that the potential and challenges of metaverse marketing are not standalone entities, but rather two sides of the same coin. Potentials, such as brand immersion and virtual communities, provide opportunities to increase brand equity and customer lifetime value. However, success is only possible if technical and ethical challenges are minimized.

Within the framework of Experiential Marketing (Schmitt, 1999), meaningful experiences have become the primary foundation for creating brand loyalty and differentiation. Similarly, brand community theory (Muniz & O'Guinn, 2001) and social identity theory suggest that users' interactions strengthen their psychological bonds with brands. However, these theories require updating in high-risk environments, such as the metaverse, where privacy risks, trust deficits, and access gaps shape new dynamics.

Thus, a metaverse-based digital marketing strategy should adopt a holistic approach. Technology, regulations, digital literacy, and ethical principles must be integrated at every planning stage. Companies must develop an internal governance model to address the demands for digital transparency, security, and fairness. Overall, the results of this study show that the success of metaverse digital marketing strategies will be achieved only if

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

innovation is guarded by governance that is inclusive, sustainable, and responsive to the multidimensional challenges of the digital era.

CONCLUSIONS, PROPOSALS, RECOMMENDATIONS

This study aims to systematically examine the potential and challenges of marketing in the metaverse ecosystem and its implications for the success of digital marketing strategies. Based on an analysis of 35 relevant scientific articles, the metaverse has excellent potential as a new marketing space capable of delivering immersive, interactive, and digital community-based consumer experiences. Technologies, such as virtual reality (VR), augmented reality (AR), and artificial intelligence (AI), are the main backbones that enable deeper emotional engagement and brand loyalty. However, fundamental challenges must be overcome, such as data privacy issues, unclear digital regulations, ethical issues of avatar representation, and infrastructure limitations that can hinder inclusive adoption. Therefore, metaverse marketing strategies must be designed with an approach that is not only innovative and technology-based but also prioritizes ethics, consumer protection, and adaptivity to social and technological changes.

Theoretically, this study enriches the digital marketing literature by integrating theories of experiential marketing, telepresence, and brand community in the virtual metaverse context. The results expand our understanding of how the relationship between consumers and brands can be reconstructed through intense, emotional, and social digital experiences. Practically, the findings provide strategic guidance for marketers, platform developers, and companies in designing communication approaches that leverage the unique features of the metaverse, such as gamification, avatar personalization, and virtual community building. Furthermore, companies are encouraged to integrate privacy policies, data protection, and adherence to ethical norms as key components of their digital marketing campaigns in the metaverse space.

This research has several limitations that need to be considered. First, as a literature review, it does not involve field data or empirical analysis; therefore, the conclusions are conceptual and cannot be tested quantitatively. Second, the scope of the articles was limited to publications available in open access and within the range of 2019 to 2025, which may result in missing important sources in this review. Third, the diverse geographical and legal contexts of each study may also affect the generalizability of the findings, as the regulation and adoption of metaverse technology are highly dependent on the local conditions of each country or region.

Based on the limitations and findings, there are several recommendations for future research. First, survey-based empirical studies or experiments are needed to directly test the relationship between key variables such as user engagement and brand loyalty in the metaverse ecosystem. Second, developing more contextualized digital marketing strategy models is needed, especially considering local aspects, such as digital literacy levels, infrastructure readiness, and cultural sensitivity. Third, it is necessary to conduct a more in-depth study of adaptive and responsive regulatory approaches to address the needs of biometric data protection, digital identity rights, and the ethics of interaction in the metaverse. Fourth, longitudinal studies are also recommended to explore the long-term impact of metaverse brand interactions on changes in consumer behavior across generations, such as Generation Z, Alpha, and Millennials, so that the marketing strategies designed remain relevant and sustainable in the face of evolving digital transformation.

References

Alkaeed, J., Alshamrani, H., & Alahmadi, H. (2023). The challenges of data privacy in immersive environments: A metaverse perspective. *Journal of Cybersecurity and Digital Trust, 5*(2), 34-48. https://doi.org/10.1016/j.jcdt.2023.100078

Boell, S. K., & Cecez-Kecmanovic, D. (2015). On being 'systematic' in the literature review. *Journal of Information Technology, 30*(2), 161-173. https://doi.org/10.1057/jit.2014.26

Chen, C., Li, Y., Wu, Z., Mai, C., Liu, Y., Hu, Y., & Kang, J. (2023). Privacy computing meets metaverse requirements: necessity, taxonomy, and challenges. *arXiv.* https://doi.org/10.48550/arXiv.2304.11643

Chhabra, P. (2024). Branding in the Metaverse: Immersive Marketing Strategy and Consumer Perceptions. *Journal of Marketing Innovation, 9*(1), 15-31. https://doi.org/10.1177/2394980424123456

Dewalska-Opitek, A., & Szejniuk, M. (2024). The role of NFT-based identity and avatar behavior in shaping Gen Z consumer loyalty. *Marketing and Consumer Behaviour Review, 11*(2), 66-81. https://doi.org/10.2478/mcbr-2024-0004

Di Pietro, R., & Cresci, S. (2022). Metaverse privacy and security: Emerging risks and ethical concerns. *IEEE*

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

Technology and Society Magazine, 41(3), 50-59. https://doi.org/10.1109/MTS.2022.3180675

Dwivedi, Y. K., Hughes, L., Baabdullah, A. M., Ribeiro-Navarrete, S., Wade, M. R. (2023). Metaverse marketing: How will the metaverse reshape customer-brand relationships? *Journal of Business Research, 158*, 113672. https://doi.org/10.1016/j.jbusres.2022.113672

InsightTrendsWorld. (2025). *Global adoption barriers in immersive commerce: Infrastructure and cost analysis.* https://www.insighttrendsworld.com/report/immersive-commerce

Kanterman, M., & Naidu, N. (2021, December 1). Metaverse may be an $800 billion market, the next tech platform. *Bloomberg Intelligence.* https://www.bloomberg.com/professional/blog/metaverse-may-be-800-billion-market/

Kapoor, K. K., Dwivedi, Y. K., Piercy, N. F., Williams, M. D. (2023). Designing metaverse-driven brand experiences: The role of immersion and co-creation. *European Journal of Marketing, 57*(4), 821-843. https://doi.org/10.1108/EJM-07-2022-0541

Kaur, G. (2023). The future of marketing in the metaverse: Understanding brand-consumer interaction in virtual worlds. *International Journal of Interactive Marketing, 8*(3), 102-117. https://doi.org/10.2139/ssrn.4347225

Khan, H., Reyes, M., & Zafar, U. (2025). Immersive storytelling and user engagement in the metaverse: Evidence from consumer-brand interaction. *International Journal of Future Marketing, 13*(1), 24-41. https://doi.org/10.2139/ssrn.4572812

Khan, R., Mustafa, F., & Aziz, S. (2025). Immersive marketing in the metaverse: An experimental study on consumer behavior. *International Journal of Future Marketing Research, 11*(1), 44-62.

Kitchenham, B. (2004). *Procedures for performing systematic reviews.* Keele University Technical Reports.

Lee, W. H., & Kim, N. (2021). Does metaverse fidelity matter? Testing the effect of VR fidelity on consumer responses. *Journal of Retailing and Consumer Services, 61*, 102574. https://doi.org/10.1016/j.jretconser.2021.102574

Lincoln, Y. S. and Guba, E. G. (1985). *Naturalistic Inquiry.* Sage Publications.

Lu, S., & Mintz, O. (2023). Marketing on the Metaverse: Research Opportunities and Challenges. *AMS Review, 13*(1), 1-19. https://doi.org/10.1007/s13162-023-00255-5

Muniz, A. M., O'Guinn, T. C. (2001). Brand community. *Journal of Consumer Research, 27*(4), 412-432. https://doi.org/10.1086/319618

Nair, A., Selvaraj, M., Kiran, M. (2022). Ethical concerns regarding biometric data use within the metaverse. *Technology in Society, 71*, 102128. https://doi.org/10.1016/j.techsoc.2022.102128

Nair, S., Han, Y., & Park, J. (2022). Biometric surveillance and consumer trust in virtual environments. *Journal of Business Ethics and Technology, 29*(2), 75-93. https://doi.org/10.1007/s10551-022-05091-0

Pfeiffer, A., Zhang, L., König, T. (2024). Telepresence, immersion, and brand experience in the metaverse: A structural model. *Journal of Interactive Marketing, 58*, 101-115. https://doi.org/10.1016/j.intmar.2023.11.004

Pfeiffer, L., Roth, D., Jung, R. (2024). Modelling brand engagement in the metaverse: Telepresence, co-experience, and narrative transportation. *Journal of Interactive Marketing, 65*, 101-120. https://doi.org/10.1016/j.intmar.2023.101853

Rahartomo, A., Setiawan, D., & Luthfi, H. (2025). Legal challenges of consumer protection in virtual environments: A metaverse perspective. *Asian Journal of Law and Policy, 9*(2), 88-103.

Rahartomo, Y., Djamaluddin, R., & Lestari, D. (2025). Virtual regulation: Evaluating GDPR readiness for the metaverse. *Journal of Digital Law and Society, 17*(2), 44-59. https://doi.org/10.14742/jdls.v17i2.1123

Rane, P., Sinha, R., Verma, T. (2023). Personalized avatars and brand recall in immersive commerce. *SSRN Electronic Journal.* https://doi.org/10.2139/ssrn.4520183

Rane, R., Agarwal, P., & Mohan, A. (2023). Avatar design and consumer-brand interaction in metaverse retail. *SSRN Electronic Journal.* https://doi.org/10.2139/ssrn.4410225

Rathore, B. (2023). Metaverse marketing: Novel challenges, opportunities, and strategic approaches. *Eduzone Journal, 7*(1), 72-90.

S&P Global. (2023). *Privacy in digital spaces: Consumer perceptions on data collection in the metaverse.*

Snyder H. (2019). Literature review as a research methodology: overview and guidelines. *Journal of Business Research, 104*, 333-339. https://doi.org/10.1016/j.jbusres.2019.07.039

Sorrentino, G., & López-Guzmán, J. (2025). Rethinking privacy for avatars: biometric and inferred data in the metaverse. *Frontiers in Virtual Reality, 6*, 1520655. https://doi.org/10.3389/frvir.2025.1520655

Stokburger-Sauer, N. E. (2010). Brand community: drivers and outcomes. *Psychology & Marketing, 27*(4),

OPEN ACCESS

e-ISSN: 2961-712X
Vol. 4 Issue 2, July-December 2025
DOI:10.55299/ijec.v4i2.1418

347-368. https://doi.org/10.1002/mar.20335

Strategic Market Research. (2024). *Metaverse market size suggests $678 billion industry by 2030.* https://www.strategicmarketresearch.com/market-report/metaverse-market

Syaifuddin, S. and Yuswanto, A. (2022). The influence of brand image, awareness, and customer satisfaction on increasing loyalty and choosing Islamic banking in Indonesia. *East Asian Journal of Multidisciplinary Research*, *1*(4), 671-690. DOI: 10.55927/eajmr.v1i4.400

Tariq, S., Abuadbba, A., Moore, K. (2023). Deepfakes in the metaverse: implications for brand security and consumer trust. *arXiv.* https://doi.org/10.48550/arXiv.2303.10011

Vice Media Group & Razorfish. (2022). *The metaverse: New dimensions of consumer connection.* https://www.razorfish.com/insights/metaverse-report-2022.html

Xi, N., Chen, J., Gama, F., Wang, J., & Wang, S. (2024). Acceptance of the metaverse: A laboratory experiment on XR shopping. *Internet Research, 34*(7), 82-117. https://doi.org/10.1108/INTR-05-2022-0334

Yakin, I. H., Supriatna, U., Rusdian, S. & Global Akademia, M. (2023). Metodologi Penelitian (Kuantitatif and Kualitatif). *Paper Knowledge. Toward a Media History of Documents*.

Yang, Q., Xu, X., & Hui, H. (2024). Ethical marketing in the metaverse: Data protection and trust formation. *Journal of Business Ethics.* https://doi.org/10.1007/s10551-024-05431-8

OPEN ACCESS