

# Transforming Marketing Education in Today's Learning Ecosystem

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**Abstract:** Digital platforms, data analytics, artificial intelligence, and rising expectations for responsible business are reshaping marketing practice and the broader domain of business administration. Meanwhile, contemporary education is moving toward learner-centered, outcome-based, and evidence-rich models supported by blended learning and data-informed teaching. This dual transformation has revealed persistent weaknesses in marketing education: curricula that expand without integration, practice activities that lack authenticity, uneven development of digital competencies, and assessment systems that reward final outputs more than professional processes and ethical judgment. Taking education as the core theme and business administration/marketing as the background context, this paper proposes a coherent reform agenda built on a competency-scenario-assessment integration. The approach clarifies a set of graduate competencies (strategic and systems thinking, consumer insight, data literacy and experimentation, creative execution, cross-functional collaboration, and responsible decision-making), anchors learning in realistic scenarios (real client briefs, omnichannel campaigns, pricing and negotiation cases, market experiments, and crisis response), and verifies learning through multi-source evidence (portfolios, rubrics, peer and industry reviews, and reflective logs). The paper further outlines actionable strategies for modular curriculum redesign, project-based pedagogy, industry co-teaching, purposeful toolchain integration, and governance mechanisms that ensure quality, fairness, and scalability. The goal is to provide institutions with a practical roadmap for cultivating marketing professionals who can operate competently and ethically in complex, rapidly changing market environments.

**Keywords:** marketing education; business administration; competency-based education; project-based learning; digital marketing; assessment; industry-education integration

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## 1. Introduction

Marketing education has long been tasked with a dual mission: explaining how markets work and preparing learners to create value within them. In many business administration programs, the marketing curriculum is built around foundational theories-segmentation, targeting, and positioning; consumer behavior; marketing research; pricing; channels; branding; and integrated communications. These foundations provide conceptual tools that remain indispensable for professional practice. Yet, the operating conditions under which marketing decisions are made have changed substantially in recent years, and the pace of change continues to accelerate [1].

From the industry side, marketing is increasingly shaped by digital platforms, algorithmic curation, and constant feedback loops. Data are generated continuously, campaigns can be iterated in near real time, and competition unfolds across interconnected channels. At the same time, regulations and public expectations regarding privacy, transparency, and sustainability are tightening. Marketers therefore face a more complex decision space: they must balance performance and brand building, growth and governance,

personalization and privacy, persuasion and fairness, and short-term optimization and long-term trust.

From the education side, institutions are shifting toward outcomes-based approaches, emphasizing what students can do with what they learn. Teaching is becoming more learner-centered and more project-oriented, supported by blended learning and digital learning environments. The rise of generative AI adds both opportunity and urgency: students can rapidly produce text, images, and analyses, but this also challenges traditional assessments that equate outputs with learning. As a result, marketing education must re-evaluate not only its content but also its pedagogy and evidence of learning [2].

The central argument of this paper is that effective reform requires a coherent system design rather than isolated course updates. Marketing education should be organized around a clear competency model, embedded in realistic learning scenarios, and evaluated through evidence that captures professional process and ethical judgment. To operationalize this idea, the paper proposes a competency-scenario-assessment integration and translates it into practical pathways for curriculum redesign, project-based learning, industry co-teaching, toolchain integration, and governance. The analysis is intended to be adaptable across institutional types, including research universities, applied universities, and vocational institutions.

## **2. The Contemporary Educational Environment**

### *2.1. Learner-Centered and Active Learning as the New Baseline*

A defining feature of the contemporary educational environment is the shift from teacher-centered knowledge transmission to learner-centered knowledge construction. This shift is reinforced by evidence from learning sciences showing that students develop deeper understanding when they actively engage with problems, articulate reasoning, receive feedback, and revise their work. In marketing, this is particularly important because many concepts are inherently situational: a positioning statement is only meaningful relative to target customers and competitors; a pricing strategy depends on demand, costs, and channel structure; and a communication plan depends on goals, audience, and media realities [3].

Learner-centered approaches typically involve active learning methods such as case analysis, simulations, debates, and project-based learning. However, in practice, "activity" does not automatically mean "learning." If tasks are overly scripted or disconnected from assessment standards, students may complete them mechanically. Therefore, marketing education must design activities that require decision-making under constraints and must connect those decisions to explicit learning outcomes.

### *2.2. Outcomes-Based Education and Constructive Alignment*

Outcomes-based education (OBE) emphasizes clarity of learning outcomes and alignment among outcomes, teaching activities, and assessment. For marketing programs, OBE helps address a common pattern: curricula expand by adding new topics (digital marketing, influencer marketing, marketing automation, growth analytics) without integrating them with the conceptual core. The result can be breadth without coherence—students recognize terminology but struggle to apply frameworks in integrated decision contexts.

Constructive alignment requires that each course contributes to specific competency indicators and that the program as a whole offers a progressive pathway from foundational understanding to independent performance. In marketing, this means sequencing learning from basic concepts (e.g., value proposition and segmentation logic) to more complex tasks (e.g., omnichannel campaign design, customer lifetime value analysis, experimentation, and crisis response) [4].

### *2.3. Digital and Blended Learning Infrastructure*

Digital learning infrastructure has become a baseline condition rather than an optional enhancement. Blended learning combines in-person instruction with online modules, discussion forums, digital assignments, and feedback tools. For marketing education, this infrastructure is doubly important: it improves the delivery of teaching (e.g., micro-lectures, flipped classrooms) and provides an environment for practicing digital marketing skills (e.g., analytics dashboards, content planning workflows, and data visualization).

The contemporary environment also supports learning analytics and continuous feedback. Instead of evaluating students only through final exams, instructors can track progress through milestone deliverables, version histories, peer feedback, and reflective logs. Such evidence is closely aligned with marketing practice, where work is iterative, collaborative, and shaped by ongoing measurement [5].

#### *2.4. Value-Oriented Education: Ethics, Inclusion, and Sustainability*

A further trend is the integration of values into professional education. In marketing, ethical and social considerations are central because marketing influences consumer choices and public discourse. Issues such as privacy, targeted advertising, manipulative design, fairness in pricing, representation and stereotyping, and sustainability claims are no longer peripheral. They are increasingly regulated and scrutinized by stakeholders.

Consequently, marketing education must prepare students to reason about value conflicts and to embed ethical judgment into professional decision-making. This is best achieved when ethical reasoning is integrated into project tasks and assessment criteria rather than treated as separate lectures detached from marketing decisions.

### **3. Marketing and Business Administration as the Background Context**

#### *3.1. From Communication Function to Strategic Capability*

Marketing practice has evolved from a communication-oriented function toward a strategic capability that connects customer value, competitive advantage, and organizational performance. In many firms, marketing decisions are now intertwined with operations (service design and delivery), finance (budget allocation, profitability analysis), and strategy (market entry, growth pathways). This integration increases the need for graduates who can speak the language of business administration and translate marketing initiatives into credible business cases.

Strategic marketing competence therefore requires systems thinking: understanding how product decisions influence pricing power, how channel structure shapes customer experience, how brand investments affect long-term demand, and how marketing metrics relate to financial outcomes. Education should cultivate this cross-domain reasoning through integrated scenarios.

#### *3.2. Data-Driven Marketing and Experimentation*

The expansion of digital touchpoints has made data central to marketing. Organizations track impressions, clicks, conversions, retention, and customer lifetime value; they segment audiences based on behavior; and they personalize content and offers. However, the availability of data does not automatically generate insight. Marketers must understand data quality, measurement error, attribution limitations, selection bias, and the difference between correlation and causation.

Experimentation has become a practical methodology for decision-making, especially in digital contexts. A/B testing and multivariate testing support iterative optimization, but they require careful design, statistical reasoning, and ethical considerations (e.g., informed consent and potential harm). Therefore, education must go beyond tool demonstrations and teach students how to formulate hypotheses, choose metrics, interpret results, and translate findings into decisions.

#### *3.3. Omnichannel Competition and Platform Dependence*

Modern marketing unfolds across a complex channel ecosystem: physical stores, e-commerce sites, social platforms, search engines, marketplaces, and partner channels. Omnichannel strategy requires coordination across touchpoints and careful trade-offs. For example, heavy discounting may boost short-term volume but can damage brand equity; platform advertising can deliver performance but may create dependence on opaque algorithms; and channel incentives can trigger conflict between online and offline partners.

These realities imply that graduates need to understand channel economics, incentive alignment, and governance mechanisms such as contracts, service-level agreements, and partner management. Such topics connect marketing with the broader field of business administration and underscore the need for integrated teaching.

### *3.4. Artificial Intelligence and the Future of Marketing Work*

Artificial intelligence is increasingly embedded in marketing workflows. AI supports content generation, customer service automation, lead scoring, predictive targeting, and marketing mix modeling. Used responsibly, AI can increase productivity and free human attention for strategy and creativity. Yet AI also introduces significant risks: false claims generated in content, discriminatory targeting, privacy breaches, erosion of trust, and the temptation to replace critical thinking with automated outputs.

For education, AI changes what should be taught and how learning should be assessed. Students must learn to use AI as an assistive tool under human judgment, with explicit verification practices and transparency about AI involvement. Assessment must therefore capture students' reasoning and decision processes rather than only polished outputs.

### *3.5. Responsible Marketing and Sustainable Value Creation*

Stakeholders increasingly expect firms to act responsibly in marketing. This includes avoiding deceptive practices, substantiating environmental and social claims, disclosing paid endorsements, and respecting consumer privacy. Sustainability has moved from an optional positioning choice to a core dimension of organizational legitimacy, and marketing teams are often responsible for communicating sustainability commitments and performance.

Responsible marketing competence requires the ability to evaluate claims, recognize trade-offs, and communicate transparently. Education should therefore integrate governance, compliance, and sustainability reasoning into marketing projects and case analyses.

## **4. Key Gaps and Challenges in Current Marketing Education**

### *4.1. Curriculum Fragmentation and Weak Integration*

Many marketing programs remain organized as a collection of separate courses that each cover a well-defined topic area. While specialization can be useful for depth, the structure often leads to fragmentation. Students may perform well in consumer behavior, marketing research, and advertising as separate subjects, yet struggle to synthesize these areas when facing real problems that require simultaneous decisions about positioning, pricing, channel selection, and communication.

Fragmentation is intensified when new topics are added as standalone courses without a program-level logic. For example, digital marketing courses may focus on platform mechanics, while strategy courses emphasize frameworks, and research courses emphasize methods. Without an integrative learning spine, students may not understand how to move from insight to strategy to execution to evaluation.

### *4.2. Limited Authenticity of Practice Activities*

A second gap concerns the authenticity of practice. Classroom cases and simulations often simplify reality: data are clean, objectives are clear, constraints are stable, and stakeholder conflicts are minimal. Yet in real marketing work, data are incomplete or noisy,

budgets are constrained, time is limited, and different departments pursue different objectives.

When practice lacks authenticity, students may develop unrealistic confidence or may learn to perform "presentation competence" rather than decision competence. Authentic learning requires exposure to ambiguity, trade-offs, and iterative revision, along with feedback from stakeholders who can challenge assumptions.

#### *4.3. Uneven Digital Competence and Tool-Theory Separation*

A third gap is uneven digital competence. Some students can operate tools but cannot interpret results or connect them to strategy. Others understand theory but avoid tools altogether, leaving them underprepared for data-centric work environments. The deeper problem is that tool use is often treated as a separate training activity rather than as a means of reasoning within marketing tasks.

Effective education should integrate tools into learning outcomes and assessments. Students should be asked not only to produce dashboards or reports, but also to justify metric choices, explain data cleaning steps, interpret anomalies, and propose actions based on evidence.

#### *4.4. Assessment Overemphasis on Final Outputs*

Assessment practices frequently reward final deliverables-reports, slide decks, and exams-without adequately evaluating process quality. In marketing, however, professional work depends on iterative refinement, collaboration, documentation, and decision justification. A single polished final report can hide weak reasoning, superficial research, or unequal team contributions.

To align assessment with professional practice, programs need evidence-rich evaluation: milestones, iteration logs, peer evaluations, reflective memos, and oral defenses. These measures help verify that students can think and act professionally, not only produce attractive artifacts.

#### *4.5. Ethics and Governance Treated as Add-On Content*

Ethics, privacy, and sustainability topics are sometimes taught as separate lectures or elective modules. While such content raises awareness, it may not change students' decision habits if it remains disconnected from core project tasks. Students may treat ethics as a compliance checklist instead of as a dimension of decision quality.

Marketing education should embed governance and ethics into scenario constraints and rubrics. For example, a targeting plan should include privacy impact considerations; an influencer campaign should include disclosure requirements; and a sustainability claim should require substantiation and risk analysis.

#### *4.6. Faculty Capability and Industry Engagement Challenges*

Finally, faculty capability and industry engagement can be uneven. Full-time instructors may have limited opportunities to stay current with rapidly changing platform rules, analytics tools, and professional workflows. Practitioners invited as guest lecturers can provide valuable insights but may lack pedagogical design skills and may not participate consistently enough to support learning progression.

Bridging these gaps requires an institutional model for sustained collaboration: co-developed project briefs, co-teaching arrangements, shared rubrics, and clear governance on confidentiality and intellectual property. Without such mechanisms, reforms depend on individual enthusiasm and are difficult to scale.

### **5. A Competency-Scenario-Assessment Integration Framework**

To address the above challenges, this paper proposes a framework that integrates competencies, scenarios, and assessments. The framework is built on a practical premise:

competencies are best developed through authentic tasks, and they are best verified through evidence that captures both process and outcomes.

Competencies refer to observable abilities that combine knowledge, skills, and dispositions. For business administration and marketing, a program-level competency model can be organized into six domains: (1) strategic and systems thinking, (2) consumer and market insight, (3) data literacy and experimentation, (4) creative and communication execution, (5) collaboration and project management, and (6) ethical and responsible decision-making.

Scenarios refer to realistic contexts in which competencies are exercised. High-quality scenarios include uncertainty, constraints, and stakeholder dynamics. Examples include designing an omnichannel growth plan for a small business, developing a pricing strategy under competitive pressure, negotiating a channel partnership with contract clauses, running a market experiment to test a value proposition, or responding to a reputational crisis involving misleading claims.

Assessments refer to methods that collect evidence of learning. In a competency-scenario model, evidence must be continuous rather than episodic. Portfolios of artifacts, milestone deliverables, iteration logs, peer and mentor feedback, and reflective memos form a "chain of evidence" that supports valid evaluation. Rubrics define performance levels and make expectations transparent to learners.

Constructive alignment connects the three elements: learning outcomes define competencies, teaching activities provide scenario-based opportunities, and assessments gather evidence that maps directly to competency indicators. This design reduces fragmentation and supports continuous improvement at the course and program level. Table 1 illustrates an adaptable competency map linking domains, indicators, and evidence artifacts.

**Table 1.** Illustrative Competency Map for Marketing Education.

Competency Domain	Key Indicators (Examples)	Evidence Artifacts (Examples)
Strategic & Systems Thinking	Frames problems and success metrics; links marketing initiatives to business objectives; balances short-term performance and long-term brand equity; analyzes trade-offs across product, price, place, and promotion.	analysis with constraints; decision rationale documenting trade-offs.
Consumer & Market Insight	Designs research to answer business questions; synthesizes qualitative and quantitative evidence; translates insights into actionable implications; builds customer journey and persona models.	Research plan; interview and survey instruments; insight report; journey map; persona evidence file.
Data Literacy & Experimentation	Cleans and interprets data; selects and defines metrics; designs experiments and evaluates results; recognizes bias, confounders, and attribution limits; uses data ethically.	Dashboard; experiment design brief; analysis notebook; metric definitions; limitations and ethics statement.

Creative & Communication Execution	Develops value propositions and message architecture; adapts creative across channels; uses testing and feedback to refine content; communicates clearly to stakeholders.	Creative brief; copy and visual concepts; content calendar; A/B creative test summary; presentation recording.
Collaboration & Project Management	Plans tasks and milestones; assigns roles and manages dependencies; documents meetings and decisions; resolves conflicts; demonstrates professional accountability.	Project plan; RACI chart; meeting minutes; peer evaluations; contribution log and reflection.
Ethics & Responsible Decision-Making	Considers privacy, fairness, and transparency; avoids misleading claims; substantiates sustainability assertions; re-discloses sponsored content; uses AI responsibly and verifiably.	Privacy impact note; compliance checklist with justification; risk register; ethical reflection memo; AI usage disclosure.

## 6. Pathways for Curriculum, Pedagogy, and Assessment Reform

### 6.1. Modular Curriculum Redesign: From Topic Lists to Competency Pathways

A practical starting point is to redesign the curriculum as a competency pathway rather than a topic checklist. Foundational theory remains essential, but each module should explicitly support a set of competency indicators and culminate in an artifact that can be included in a portfolio. For example, a "Consumer Insight" module may combine elements of consumer behavior and marketing research, culminating in an evidence-based insight report that directly informs a subsequent "Positioning and Offer Design" module.

Modular redesign also helps manage curriculum overload. New developments-such as influencer marketing, marketing automation, or retail media-can be introduced as micro-modules attached to stable competency domains. This preserves coherence while maintaining relevance. Programs can also create "integration studios" in which students must synthesize learning from multiple modules to solve end-to-end problems.

### 6.2. Project-Based Learning with Realistic Client Briefs

Project-based learning (PBL) is well-suited to marketing because marketing outcomes depend on integrated decisions, iterative refinement, and collaboration. Effective PBL requires well-designed briefs, milestones, and feedback mechanisms. Institutions can cooperate with local firms, campus services, or nonprofit organizations to provide authentic briefs, such as improving event attendance, increasing app engagement, designing recruitment campaigns, or developing product launch plans.

A recommended semester structure includes four decision gates: (1) problem framing and success metrics, (2) insight generation and hypothesis formation, (3) solution design and execution planning, and (4) evaluation and learning reflection. Short lectures and workshops provide "just-in-time" concepts and methods needed for each gate. Feedback should be frequent, specific, and aligned with rubrics, ensuring that students learn through revision rather than one-off submission.

### 6.3. Integrating the Digital Toolchain as Learning Infrastructure

Modern marketing work relies on an interconnected toolchain: spreadsheets, survey platforms, analytics dashboards, social media management tools, design tools, and customer relationship management systems. Education should integrate tools in a pedagogically meaningful way. Instead of teaching software in isolation, instructors can embed tool use into scenario tasks-e.g., cleaning survey data to support segmentation, building a dashboard to monitor campaign performance, or visualizing a funnel to identify conversion bottlenecks.

Tool use should be assessed through reasoning, not screenshots. Students should document metric definitions, data sources, cleaning steps, assumptions, and limitations. This turns tool practice into analytical thinking and makes learning visible. Where proprietary tools are unavailable, open-source or educational versions can be used, provided the focus remains on transferable thinking rather than brand-specific features.

### 6.4. Evidence-Rich Assessment: Portfolios, Rubrics, and Multi-Source Feedback

To measure competencies credibly, assessment should move toward evidence-rich models. A portfolio-based approach compiles artifacts across the semester: research plans, insight reports, strategy memos, creative iterations, dashboards, budgets, and reflection notes. Rubrics define performance levels for each competency domain and provide actionable feedback. When rubrics are shared early, students can self-monitor progress and allocate effort strategically.

Multi-source feedback enhances validity and professionalism. Peer evaluations capture teamwork behavior and accountability; instructor evaluations ensure academic rigor; and industry mentor comments bring realism. A balanced scheme might allocate approximately 50-60% of the grade to process evidence (milestone deliverables, iteration logs, collaboration evidence), 30-40% to final outputs (final campaign plan and results report), and 10-20% to individual reflection and oral defense. Such a scheme discourages last-minute compilation and rewards sustained professional practice.

### 6.5. Embedding Ethics, Compliance, and Sustainability into Decision Tasks

Ethics and governance should be embedded into core project decisions. In practice, compliance and responsibility are not separate from marketing; they shape what can be claimed, how data can be used, and how trust is built. Therefore, course projects should include mandatory sections that address privacy, fairness, and claim substantiation. For example, a targeting plan can include a privacy impact note describing data collection and consent logic; a content plan can include disclosure practices for sponsored content; and a sustainability-focused campaign can require evidence supporting environmental claims and an analysis of greenwashing risks.

In addition, projects can include "ethical stress tests" that simulate real dilemmas: a competitor launches aggressive discounting; leadership demands faster growth; a data breach occurs; or an influencer makes problematic statements. Students must propose responses that balance performance, legality, and trust. Assessing these responses with rubrics reinforces that ethical reasoning is part of professional competence.

### 6.6. Cross-Functional Collaboration and Communication Training

Because marketing decisions interact with finance, operations, and product development, education should simulate cross-functional collaboration. This can be achieved by assigning roles within teams (marketing lead, analytics lead, finance liaison, product liaison) and requiring inter-role negotiation. Teams can present to a "review board" representing different functions and must defend their plans with both market logic and business logic.

Communication training should include executive summaries, data storytelling, and structured Q&A. Students should learn to present assumptions, quantify uncertainty, and



respond to critical questions without relying on vague claims. These practices help close the gap between classroom presentations and professional stakeholder meetings.

#### *6.7. Faculty Development and Industry Co-Teaching*

Sustainable reform depends on faculty capability. Institutions can support faculty through industry immersion, joint curriculum development with practitioners, and communities of practice that share project templates, datasets, and rubrics. Industry co-teaching can be formalized through a dual-instructor model: academic staff ensure pedagogical coherence and fair evaluation, while practitioners provide authentic constraints, updated toolchain practices, and professional feedback.

To prevent collaboration from becoming ad hoc, institutions should clarify roles, time commitments, and confidentiality. Practitioners do not need to teach entire courses; they can contribute through brief design, milestone reviews, mock client meetings, and final evaluations. This targeted involvement can deliver strong realism with manageable resource demands.

### **7. Implementation and Governance Considerations**

Implementing integrated reforms requires attention to resources, quality assurance, data governance, and scalability. Authentic projects require datasets, client communication, mentoring time, and tool access. A scalable strategy is to pilot reforms in a small set of core courses, develop reusable assets (brief libraries, anonymized datasets, rubric templates), and expand gradually once teaching teams gain experience and evidence of impact.

Data governance and academic integrity must be addressed explicitly, especially in contexts where students use real customer data or AI tools. Institutions should establish policies on privacy, consent, storage, and disclosure. In assessment, transparency can be promoted by requiring students to document sources, assumptions, AI tool usage, and verification steps. Oral defenses, version histories, and reflective memos help instructors evaluate authentic learning and deter misconduct.

Fairness and reliability are critical in project-based assessment. Team projects can produce unequal contribution patterns if not managed. Peer evaluation instruments, role rotation, and individual checkpoints (e.g., individual data analysis tasks, individual reflection memos, individual oral defense) can improve fairness. Rubric calibration across instructors is also important to maintain consistent standards across cohorts.

Industry collaboration should be governed by clear agreements on intellectual property, confidentiality, and expectations. Many organizations can participate without sharing sensitive information by providing sanitized briefs, attending milestone reviews, or evaluating final presentations. A tiered access model—public, teaching-only, and restricted-combined with anonymization protocols can reduce risk while enabling authenticity. Finally, programs should embed continuous improvement through review of portfolio samples, employer feedback, graduate outcomes, and rubric statistics, enabling iterative updates rather than sporadic major reforms.

### **8. Conclusion**

Marketing education in business administration programs is undergoing a necessary transformation driven by both educational evolution and industry change. Contemporary learning environments emphasize competencies, active learning, and evidence-rich assessment, while marketing practice increasingly demands data literacy, omnichannel systems thinking, cross-functional collaboration, and responsible governance.

This paper argued that effective reform requires a coherent system design and proposed a competency-scenario-assessment integration framework. It translated the framework into actionable pathways: modular curriculum redesign, authentic project-based learning, purposeful digital toolchain integration, portfolio- and rubric-based evaluation,

and embedded ethics and sustainability reasoning. Implementation requires governance mechanisms that address resources, data integrity, fairness, and structured industry collaboration.

Ultimately, the aim of marketing education should be to cultivate graduates who can diagnose market situations, make defensible decisions under constraints, collaborate effectively, and act responsibly. Future research can empirically evaluate the impact of integrated reforms across different institutional contexts and explore how AI-enabled tools can support learning without diminishing critical thinking, transparency, and professional ethics.

## Reference

1. M. J. Piore, "The dual labor market: theory and implications," In *Social stratification*, 2018, pp. 629-640.
2. M. Pogátsnik, "Dual education: connecting education and the labor market," *Opus et Educatio*, vol. 8, no. 3, 2021. doi: 10.3311/ope.466
3. B. Ibrahim, "Social media marketing activities and brand loyalty: A meta-analysis examination," *Journal of Promotion Management*, vol. 28, no. 1, pp. 60-90, 2022. doi: 10.1080/10496491.2021.1955080
4. W. J. Ladeira, F. de Oliveira Santini, W. M. Lim, T. Rasul, S. Akter, R. A. Rather, and M. Azhar, "Antecedents and consequences of social media use in sales: a meta-analysis," *Electronic Commerce Research*, pp. 1-27, 2025. doi: 10.1007/s10660-024-09935-1
5. J. Han, and G. Balabanis, "Metaanalysis of social media influencer impact: Key antecedents and theoretical foundations," *Psychology & Marketing*, vol. 41, no. 2, pp. 394-426, 2024. doi: 10.1002/mar.21927

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