



Community Belonging in Direct-to-Consumer Brand Ecosystems

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Abstract

Direct-to-consumer brands increasingly operate as relational ecosystems rather than isolated transactional websites. Their commercial environments may incorporate proprietary digital communities, social-media groups, customer stories, membership programs, referral networks, product education, user-generated content, brand events, and opportunities for customers to influence product development. These mechanisms create conditions in which consumers may experience not only attachment to a product or brand but also a sense of belonging to a socially meaningful collective. This study develops a simulation-based framework for examining community belonging within direct-to-consumer brand ecosystems. Three hypothetical ecosystem conditions are compared: transaction-focused, brand-led community, and participatory community. A synthetic analytical sample of 450 observations, with 150 observations assigned to each condition, is used solely for methodological demonstration. Community belonging, peer reciprocity, brand trust, advocacy intention, and repurchase intention are modeled using seven-point scales.

The simulated results indicate that participatory community ecosystems generate the highest community-belonging score at 6.12, compared with 5.46 for brand-led communities and 4.18 for transaction-focused environments. Similar patterns emerge for reciprocity, trust, advocacy, and repurchase intention. The findings suggest that belonging becomes stronger when consumers are not treated solely as audiences for branded communication but are provided with credible opportunities for recognition, mutual assistance, contribution, and collective participation. The study extends established brand-community theory into the direct-to-consumer context by distinguishing community visibility from genuine relational participation. It concludes that belonging should be managed as a reciprocal social outcome rather than as a superficial engagement metric.

Keywords: community belonging; direct-to-consumer brands; brand communities; consumer engagement; brand trust; customer participation; social identity; brand loyalty

1. Introduction

Direct-to-consumer commerce has altered the traditional relationship between producers, intermediaries, retailers, and customers. Rather than depending exclusively on third-party distribution, many brands communicate, sell, educate, support, and retain customers through channels they control directly. This arrangement gives brands more opportunities to design the complete relationship surrounding consumption. The resulting ecosystem may extend beyond an e-commerce storefront to include



membership programs, customer communities, social channels, newsletters, events, referral structures, product-development feedback, educational content, and peer-to-peer interaction. From a consumer perspective, these touchpoints can convert a purchase relationship into a continuing social experience. Established brand-community scholarship already demonstrates that communities organized around brands may develop shared consciousness, rituals, traditions, and a sense of responsibility among participants.

The idea of community belonging is especially relevant because consumers do not necessarily need formal membership or intensive face-to-face interaction to perceive themselves as part of a brand-related collective. Carlson, Suter, and Brown distinguish social brand communities from psychological brand communities, showing that consumers may experience a meaningful sense of community with other brand admirers even without structured social interaction. This distinction is highly relevant for digital commerce because a customer can recognize shared identity through reviews, customer stories, recurring symbols, product-use practices, community language, social posts, or observed interactions before personally contributing to the community.

Nevertheless, community visibility and community belonging should not be treated as equivalent. A brand may display user-generated content, maintain a social-media following, create a branded group, or refer to its customers as a “community” without establishing meaningful reciprocal relationships among customers. Classical research on brand communities emphasizes relations among customers, products, brands, and marketers, while subsequent research identifies shared practices through which participants jointly create community value. Engagement research similarly suggests that consumer participation in online brand communities is multidimensional and relational rather than reducible to exposure or passive following.

This distinction becomes important in direct-to-consumer ecosystems because firms have unusually strong control over the architecture of interaction. A transaction-focused ecosystem may optimize purchase convenience while providing few mechanisms for interpersonal recognition. A branded community may introduce conversation and belonging opportunities but retain substantial managerial control over participation. A participatory ecosystem, by contrast, may allow customers to exchange knowledge, recognize one another, create content, assist newcomers, participate in product development, and influence community norms. Prior evidence indicates that brand-community identification can strengthen engagement and that engagement can subsequently contribute to loyalty. Research on social-media-based brand communities also associates community practices with trust and loyalty development.

The present study therefore investigates community belonging as a relational capability within direct-to-consumer brand ecosystems. Rather than asking whether a brand has an online community, the study considers whether the ecosystem creates the conditions required for consumers to experience inclusion, recognition, reciprocity, and meaningful participation. Because no original consumer dataset was supplied, the numerical analysis is explicitly simulation-based and must not be represented as completed empirical research. The proposed framework compares three ecosystem structures and evaluates their modeled relationships with community belonging, peer reciprocity, brand trust, advocacy intention, and repurchase intention. In doing so, the paper connects established brand-community theory



with a contemporary direct-to-consumer relationship architecture while preserving a clear distinction between theoretical illustration and verified consumer behavior.

2. Objectives of the Study

2.1 To Examine How DTC Ecosystem Structure Influences Community Belonging

The first objective is to evaluate whether different forms of direct-to-consumer relationship architecture are associated with different levels of perceived community belonging. The study distinguishes among a transaction-focused ecosystem, a brand-led community ecosystem, and a participatory community ecosystem. These conditions represent progressively stronger opportunities for consumers to observe, enter, and contribute to relationships surrounding the brand.

The central proposition is that belonging will be lowest when consumers encounter the brand primarily through transactional interactions and highest when the ecosystem enables meaningful participation. This expectation does not imply that every consumer desires intensive community involvement. Rather, it suggests that an ecosystem capable of supporting recognition, shared identity, and reciprocal participation provides stronger structural conditions for belonging than one built primarily around purchase efficiency.

2.2 To Assess Reciprocity and Brand Trust as Relational Outcomes

The second objective is to examine the relationship between ecosystem structure, perceived peer reciprocity, and brand trust. Reciprocity is important because belonging is unlikely to be sustained when participation operates only in one direction. Consumers who contribute advice, feedback, content, or support may expect acknowledgment or comparable value from other participants and from the brand.

Brand trust is included because community relationships can influence how consumers interpret the organization itself. Previous research on social-media-based brand communities indicates that community markers and value-creating practices can contribute to brand trust, while research on social capital in online communities emphasizes the importance of relationships and resources developed through interaction.

2.3 To Evaluate Advocacy and Repurchase Implications

The third objective is to assess whether stronger community belonging coincides with favorable behavioral intentions, particularly advocacy and repurchase intention. Advocacy represents consumers' willingness to recommend, defend, discuss, or positively represent the brand to others, whereas repurchase intention reflects the likelihood of continuing the commercial relationship.

These outcomes are theoretically relevant because brand-community identification has repeatedly been connected with engagement and loyalty-related responses. The present study does not assume that belonging automatically produces purchase behavior; rather, it examines whether community belonging provides a relational environment in which continued preference and voluntary advocacy become more plausible.

3. Review of Literature

3.1 Brand Community, Social Identity, and Belonging

Muñiz and O'Guinn established brand community as a specialized community structured around social relationships among admirers of a brand. Their work demonstrated that consumption communities may possess recognizable communal characteristics rather than representing temporary collections of individual purchasers. McAlexander, Schouten, and Koenig subsequently broadened this perspective by describing brand community through interconnected relationships involving consumers, brands, products, marketers, and other customers.

Belonging within such communities can be explained partly through social-identity processes. Individuals classify themselves and others through group memberships, and meaningful group identification can contribute to self-definition. Within consumption settings, brands may function as symbolic resources around which shared meanings, lifestyles, values, knowledge, or experiences become organized. Algesheimer, Dholakia, and Herrmann demonstrate that identification with a brand community can generate stronger community engagement, although they also caution that excessive normative pressure can produce negative reactions.

Carlson and colleagues add an important distinction between social and psychological community. Their model suggests that consumers may perceive themselves as part of a community of brand users without direct interpersonal relations with other members. This insight matters in DTC environments because belonging may begin through recognition before active participation. Observing customers who share similar values, product practices, identities, or experiences can generate a preliminary sense of “people like me are here.”

3.2 Engagement, Participation, and Community Value Creation

Community belonging becomes more substantial when consumers move beyond passive recognition toward participation. Schau, Muñiz, and Arnould identify common practices through which members of brand communities collectively create value, including networking, engagement, product-use activities, and impression-related practices. Their work demonstrates that community value is produced through repeated social practices rather than exclusively through company-controlled communication.

Brodie and colleagues examine consumer engagement within a virtual brand community and describe engagement as an interactive process emerging from consumer experiences and relationships. Dessart, Veloutsou, and Morgan-Thomas similarly conceptualize online brand-community engagement as multidimensional and relevant both to consumer-brand and consumer-community relationships. These perspectives reinforce the proposition that a community cannot be evaluated adequately by follower counts, impressions, or message frequency alone.

Research published by Kumar and Kumar further demonstrates that experiential and self-esteem-related benefits can drive engagement within firm-created online brand communities. Kaur and colleagues report that brand-community identification positively influences consumer brand engagement, which in turn supports brand loyalty. Taken together, these studies indicate that community structures become more valuable when participants derive psychological and relational benefits rather than merely receiving promotional content.

3.3 Trust, Social Capital, and Loyalty in Digital Brand Communities

Digital community environments can also influence trust formation. Laroche, Habibi, Richard, and Sankaranarayanan found that social-media-based brand communities can affect community markers, value-creation practices, brand trust, and brand loyalty. Their findings position trust as an important relational consequence of community participation rather than a purely transactional evaluation.

Habibi, Laroche, and Richard later demonstrate that brand communities operating through social media possess distinctive characteristics arising from the networked environment. Meek and colleagues' work on social capital in online brand communities additionally highlights how relationships, interaction, and resources circulate within digital communities. These insights are particularly relevant for DTC ecosystems because brands can integrate community interaction directly with commerce, customer service, product education, loyalty mechanisms, and product development.

A remaining conceptual gap concerns the distinction between brand-controlled community presence and consumer-experienced belonging. Existing literature provides substantial evidence concerning identification, engagement, social practices, trust, and loyalty, yet direct-to-consumer ecosystems combine commerce and community within the same controlled relationship architecture. The present study addresses this gap by proposing that belonging becomes strongest when the ecosystem distributes meaningful participation opportunities rather than merely surrounding transactions with community-themed communication.

4. Research Methodology

4.1 Research Design and Simulated Ecosystem Conditions

The study adopts a comparative simulation-based research design. Synthetic data are used because no completed field experiment or verified consumer dataset was supplied. Accordingly, every numerical result is illustrative and should be interpreted as a demonstration of the proposed analytical framework rather than as evidence obtained from real respondents.

A synthetic sample of 450 observations was divided equally among three hypothetical direct-to-consumer ecosystem conditions. The transaction-focused condition represents an efficient commerce environment centered on product information, ordering, customer service, and promotional communication with minimal customer-to-customer interaction. The brand-led community condition incorporates moderated conversations, member content, community events, and structured engagement opportunities controlled predominantly by the brand.

The participatory community condition incorporates stronger peer interaction, member recognition, customer-created knowledge, collaborative discussion, peer assistance, opportunities for product feedback, and visible mechanisms through which contributions affect the community. This condition does not imply uncontrolled governance; rather, it represents a deliberately facilitated environment in which customers possess meaningful social agency.

Table 1: Proposed Simulation and Measurement Framework

Methodological Component	Specification	Purpose
Study design	Three-condition simulation	Compare alternative DTC ecosystem structures
Total synthetic observations	450	Methodological illustration
Observations per condition	150	Equal analytical comparison
Condition A	Transaction-Focused Ecosystem	Represent commerce-dominant relationship
Condition B	Brand-Led Community	Represent managed community participation
Condition C	Participatory Community	Represent reciprocal and member-enabled ecosystem
Primary outcome	Community Belonging	Measure perceived inclusion and collective identification
Relational mechanism	Peer Reciprocity	Represent mutual exchange and member support
Trust outcome	Brand Trust	Assess confidence in the brand relationship

Note: The sample, condition scores, and inferential statistics are entirely synthetic and are not derived from human participants.

4.2 Measurement and Proposed Questionnaire

Community belonging was conceptualized as the extent to which consumers perceive themselves as accepted, recognized, and meaningfully connected to other people within the brand ecosystem. Peer reciprocity represented the perception that members exchange support, knowledge, acknowledgment, or useful contributions rather than participating in purely one-directional communication.

Brand trust represented confidence that the brand behaves dependably, credibly, and consistently in its relationship with consumers. Advocacy intention represented willingness to recommend or positively discuss the brand, while repurchase intention reflected the likelihood of maintaining the commercial relationship through future purchases.

For future empirical validation, the following five proposed questionnaire items may be used with suitable psychometric refinement:

- I would feel that I belong among the people associated with this brand. Q
- Members of this brand community appear willing to help and support one another. Q
- The way this brand manages its community would increase my trust in the brand. Q
- I would be willing to recommend this brand to people in my personal or professional network. Q
- I would consider purchasing from this brand again in the future.
- These questions are proposed measurement items only. They were not administered to actual consumers as part of the present simulation.

4.3 Analytical Procedure and Ethical Position

Condition-level means and standard deviations were modeled for each variable. One-way analysis of variance was used to demonstrate how differences across the three ecosystem conditions could be statistically examined. Because all observations were generated synthetically, conventional p-values have no population-level evidentiary status in the present manuscript.

A genuine empirical study should recruit an adequately powered consumer sample, randomly assign participants to standardized interface or ecosystem scenarios, validate the experimental manipulation, assess construct reliability and validity, and test mediation among participation opportunities, reciprocity, belonging, trust, and behavioral intentions.

No human-subject ethics approval was required for the present simulation because no people were recruited, contacted, observed, or subjected to experimental manipulation. Future research involving human respondents should obtain appropriate ethical review where required and clearly document consent, recruitment, privacy protection, data handling, and participant withdrawal procedures.

5. Analysis

5.1 Comparative Community Outcomes

The simulated results demonstrate a clear progression in community belonging across the three ecosystem structures. The transaction-focused condition produced a mean belonging score of 4.18, indicating a comparatively weak relational connection. The brand-led community condition increased the simulated mean to 5.46, suggesting that visible community structures and managed interaction can substantially strengthen perceived inclusion.

The participatory community condition generated the highest belonging mean at 6.12. The difference suggests that community cues become more powerful when consumers are given opportunities not merely to observe brand communication but to participate in shared activities, receive recognition, interact with peers, and contribute to the development of community value.

Peer reciprocity followed an even stronger pattern. The simulated mean increased from 3.95 in the transaction-focused ecosystem to 5.32 in the brand-led community and 6.08 in the participatory condition. This progression supports the theoretical distinction between audience formation and community formation: large numbers of connected consumers do not necessarily constitute a reciprocal community.



Table 2: Simulated Outcomes Across DTC Brand Ecosystem Conditions

Variable	Transaction-Focused	Brand-Led Community	Participatory Community	Simulated F	Simulated p
Community Belonging	4.18	5.46	6.12	462.32	< .001
Peer Reciprocity	3.95	5.32	6.08	498.01	< .001
Brand Trust	4.62	5.55	5.98	241.89	< .001
Advocacy Intention	4.02	5.28	5.91	356.28	< .001
Repurchase Intention	4.85	5.72	6.02	186.79	< .001

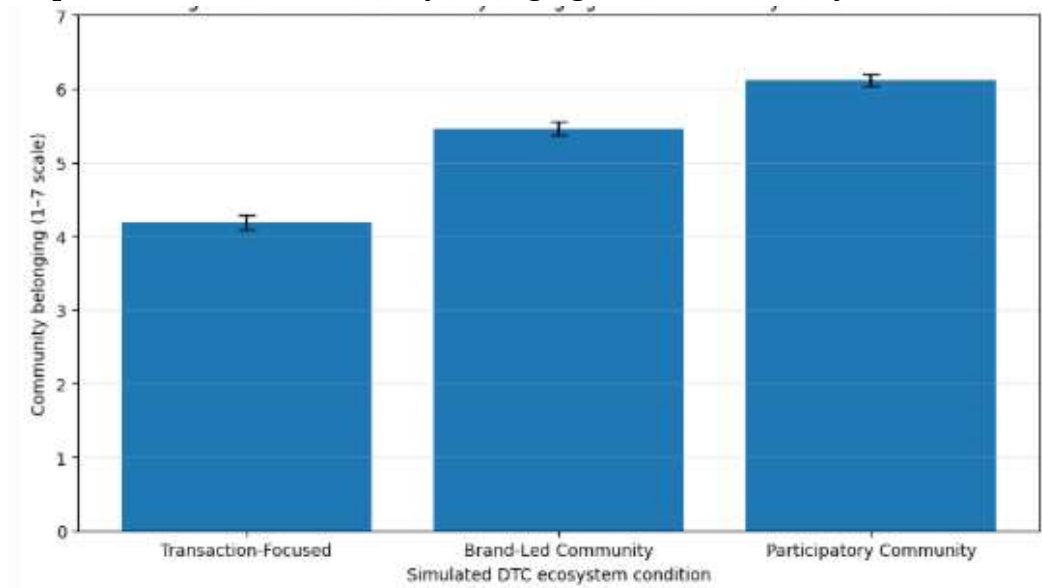
Source: Author-generated synthetic dataset for methodological illustration.

Interpretation: All five simulated outcomes increase as the ecosystem moves from transaction dominance toward reciprocal participation. The greatest proportional improvement appears in relational variables such as community belonging and peer reciprocity.

5.2 Graphical Evaluation of Community Belonging

The graphical pattern illustrates the central finding of the simulation. Community belonging increases progressively across the three conditions rather than reaching its maximum when a brand merely introduces a managed community layer.

Graph 1: Simulated Community Belonging Across DTC Ecosystem Conditions



Source: Author-generated synthetic data. Error bars represent approximate 95% confidence intervals calculated from simulated condition-level variation.

The increase from 4.18 to 5.46 demonstrates the modeled advantage of creating visible community structures. The additional increase to 6.12 indicates that participation quality matters beyond community presence. This pattern is compatible with established research showing that identification can strengthen engagement and that community practices can generate value for participating consumers and brands.

The key analytical conclusion is therefore not that every DTC organization should maximize interaction. Rather, an ecosystem designed to create belonging must make credible social participation possible. Community identity is difficult to sustain if members are treated only as content recipients or commercial targets.

5.3 Trust, Advocacy, and Repurchase Patterns

Brand trust rises from 4.62 in the transaction-focused condition to 5.55 under the brand-led community structure and 5.98 within the participatory ecosystem. This simulated progression suggests that open and reciprocal community relationships may strengthen consumer confidence in an organization by creating opportunities for repeated interaction, peer-to-peer experiences, visible responsiveness, and socially distributed information. Consumers who participate more actively in a brand community may therefore receive not only direct information from the organization but also reassurance from the experiences and opinions of other community members. The pattern is conceptually consistent with earlier social-media and brand-community research emphasizing the role of value-creating community practices in developing trust, engagement, and loyalty.

Repurchase intention shows a more moderate increase, rising from 4.85 in the transaction-focused condition to 5.72 under the brand-led community structure and 6.02 within the participatory ecosystem. This smaller relative difference is theoretically plausible because repeat purchasing can depend on several factors beyond relational belonging, including product performance, price,

convenience, availability, and the consumer's underlying category needs. Accordingly, community belonging should be interpreted as an important component of relational value rather than as a universal substitute for functional product performance. A strong community can strengthen trust, engagement, and attachment, but sustained repurchase is likely to require the community experience to be supported by consistent product quality and meaningful functional value.

6. Discussion

6.1 Belonging Requires More Than Branded Interaction

The principal implication of the study is that digital interaction should not automatically be interpreted as evidence of community. A brand may accumulate followers, reactions, reviews, comments, referral codes, or user-generated content while maintaining a fundamentally transactional relationship with its consumers. Brand-community literature has historically emphasized structured social relations and communal practices rather than mere exposure to a common brand.

The simulation extends this principle by distinguishing three levels of ecosystem architecture. A transaction-focused DTC environment can still offer excellent service and high customer satisfaction, but it provides fewer social mechanisms through which belonging can develop. Brand-led communities add interaction, identity symbols, shared conversations, and organized participation, increasing the probability that consumers recognize themselves as members of a collective.

Participatory communities generate the strongest simulated belonging because they introduce a further element: member agency. Consumers contribute rather than merely respond. Their experiences, knowledge, questions, recommendations, and creative practices can influence what other members learn and how the collective understands the brand. Community therefore becomes partly produced by participants rather than exclusively delivered by the company.

6.2 Reciprocity as the Social Infrastructure of DTC Communities

The strong simulated relationship between participatory architecture and peer reciprocity deserves particular attention. Reciprocity establishes an expectation that contribution has social consequence. A member who answers another customer's question, shares a product-use technique, provides constructive feedback, or welcomes a newcomer creates value that may later circulate back through the community.

Research on online brand communities has repeatedly emphasized engagement, shared practices, and relational resources. Meek and colleagues' analysis of social capital within online brand communities further demonstrates the importance of relationships and resources emerging from community interaction.

For DTC managers, this means that community design should facilitate member-to-member usefulness rather than concentrating exclusively on brand-to-member communication. Searchable discussions, peer advice, member recognition, onboarding rituals, expert customers, collaborative product education, feedback channels, local groups, and community-created resources may create greater belonging than a continuous stream of corporate posts.

Reciprocity also requires restraint from the brand. When every interaction becomes an immediate opportunity for selling, members may interpret the environment as a disguised promotional channel.



Community credibility is stronger when some exchanges are valuable even when they do not generate an immediate transaction.

6.3 Strategic Implications for Trust and Loyalty

The simulated trust and behavioral outcomes indicate that belonging may contribute to broader relationship strength. This proposition is consistent with research associating brand-community identification with engagement and loyalty as well as evidence connecting social-media community practices with brand trust.

However, firms should avoid attempting to engineer belonging through artificial intimacy. Calling customers a “family,” manufacturing urgency around group membership, pressuring members to display loyalty, or discouraging criticism can undermine authenticity. Algesheimer and colleagues' work is instructive because community identification may produce positive engagement while excessive normative pressure can contribute to reactance.

A more sustainable approach is to establish participation rights and responsibilities transparently. Members should understand how community moderation works, how user-generated contributions may be used, how commercial sponsorship is disclosed, how customer data are handled, and whether product feedback genuinely affects decisions.

The strongest DTC communities are therefore likely to combine commercial clarity with relational generosity. Customers remain customers, but the ecosystem recognizes that they can simultaneously become knowledge contributors, advocates, critics, mentors, collaborators, and socially connected users.

7. Conclusion

This simulation-based study examined community belonging within direct-to-consumer brand ecosystems by comparing transaction-focused, brand-led community, and participatory community structures. The analysis indicates that community belonging becomes progressively stronger as the ecosystem provides consumers with greater opportunities for social recognition, reciprocal interaction, and meaningful contribution. The simulated belonging mean increased from 4.18 in the transaction-focused condition to 5.46 in the brand-led community and 6.12 in the participatory community condition.

The findings reinforce an important conceptual distinction between possessing a community channel and creating conditions for belonging. A branded social group, membership platform, loyalty program, or content feed may provide infrastructure for interaction, but belonging depends on the social experience produced within that infrastructure. Consumers are more likely to experience community when they can recognize shared identity, receive acknowledgment, contribute useful knowledge, support other members, and observe that participation has meaningful consequences.

The study also positions reciprocity as an important mechanism connecting participation architecture with trust, advocacy, and continued purchasing intentions. From a managerial perspective, DTC brands should therefore evaluate community performance through relational indicators in addition to conventional engagement metrics. Meaningful measures may include perceived inclusion, member-to-



member assistance, quality of contribution, recognition, response fairness, trust, voluntary advocacy, and the continuity of participation rather than only follower counts or interaction volume.

The principal limitation is that the study uses synthetic observations rather than empirical consumer data. The numerical findings demonstrate the proposed analytical framework but cannot establish real-world causal effects. Future studies should conduct randomized experiments or longitudinal field research across different DTC categories and examine potential moderators including brand familiarity, customer tenure, product involvement, culture, privacy concerns, age, community size, and participation intensity. Such research could establish when community belonging produces durable relationship value and when consumers prefer a simpler transactional relationship.

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