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# FROM SUPPLY CHAINS TO DEMAND CHAINS: THE STRATEGIC INTEGRATION OF MARKETING AND SCM FOR COMPETITIVE ADVANTAGE

**Engr. Muhammad Anas Qadri**[*1], **Dr. Muhammad Amir Adam**[2]

[*1]anas.qadri@jinnah.edu, [2]amir.adam@jinnah.edu

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**Corresponding Author: ***
**Engr. Muhammad Anas Qadri**

**Abstract**

*The increasing complexity of global markets and heightened customer expectations have compelled organizations to transition from traditional supply chain models toward demand-driven frameworks. This study investigates the strategic integration of marketing and supply chain management (SCM) and its impact on competitive advantage within the Pakistani business context. Drawing upon the resource-based view (RBV) and demand chain management theory, the research conceptualizes integration through three dimensions: internal integration, customer integration, and supplier integration. A quantitative research design is employed, using structured questionnaires collected from managers in manufacturing and FMCG sectors across Pakistan. Sample Size of 312 respondents is collected. Data will be analyzed using Structural Equation Modeling (SEM) through AMOS to examine the relationships between marketing–SCM integration, supply chain responsiveness, customer satisfaction, and firm performance. Existing literature suggests that effective integration between marketing and SCM enhances operational efficiency, improves responsiveness to market changes, and strengthens customer value delivery . However, empirical evidence from developing economies, particularly Pakistan, remains limited despite the growing importance of synchronized demand and supply mechanisms. This study addresses this gap by empirically testing a comprehensive model linking marketing intelligence, demand forecasting, and supply chain capabilities to competitive advantage. The findings are expected to provide actionable insights for managers aiming to align demand creation with demand fulfillment, thereby achieving sustainable competitive positioning in emerging markets.*

## Introduction

In the contemporary business environment, firms are increasingly operating in highly competitive, dynamic, and customer-driven markets. Traditional supply chain models, which primarily focus on cost efficiency and operational optimization, are gradually being replaced by more integrated and customer-centric approaches known as demand chains. These demand-driven systems emphasize the alignment of marketing and supply chain functions to ensure that customer needs are effectively translated into operational execution.

Supply chain management (SCM) has evolved from a logistics-oriented function to a strategic capability that integrates suppliers, manufacturers, distributors, and customers into a cohesive value delivery system. Effective supply chains facilitate

the flow of products, information, and finances, thereby enhancing organizational responsiveness and efficiency (Rahman et al., 2026). At the same time, marketing plays a critical role in demand generation, customer relationship management, and market intelligence. Historically, these two functions have operated in silos, resulting in inefficiencies such as demand–supply mismatches, excess inventory, and poor customer service. However, recent research emphasizes that the integration of marketing and SCM is essential for achieving superior firm performance and competitive advantage (Liu et al., 2024; Sutia, 2022).

The concept of supply chain integration (SCI) has gained significant attention in recent years. SCI refers to the strategic coordination of internal processes and external relationships with suppliers and customers to improve overall supply chain performance. It is commonly conceptualized in three dimensions: internal integration, supplier integration, and customer integration (Rahman et al., 2026). Empirical evidence suggests that SCI enhances operational efficiency, innovation, and financial performance by enabling better coordination and information sharing across the value chain (Anwar et al., 2025).

In parallel, the integration of marketing with SCM has emerged as a critical organizational capability. Marketing provides insights into customer preferences, demand patterns, and market trends, while SCM ensures the efficient fulfillment of these demands. The alignment between these functions enables firms to transition from supply-driven to demand-driven strategies, thereby improving customer satisfaction and competitive positioning.

**Problem Statement**

Despite the recognized importance of marketing–SCM integration, many organizations in developing economies, including Pakistan, continue to operate with fragmented functional structures. This lack of coordination often results in inaccurate demand forecasting, inefficient inventory management, delayed deliveries, and ultimately, reduced customer satisfaction. Pakistani firms, particularly in the manufacturing and FMCG sectors, face additional challenges such as demand volatility, infrastructure constraints, and limited adoption of digital technologies.

While global studies highlight the positive impact of integration on firm performance, there is a scarcity of empirical research examining this relationship within the Pakistani context. Moreover, existing studies often focus on either marketing or supply chain functions independently, rather than exploring their strategic alignment. This creates a significant research gap in understanding how the integration of these functions contributes to competitive advantage in emerging markets.

**Research Objectives**

The primary objective of this study is to examine the impact of marketing and supply chain integration on competitive advantage in Pakistan. The specific objectives are:

- To analyze the effect of internal integration on supply chain responsiveness and customer integration.
- To examine the impact of supplier integration on operational performance.
- To evaluate the role of customer integration in enhancing supply chain responsiveness and customer satisfaction.
- To assess the effect of supply chain responsiveness on customer satisfaction.
- To determine the impact of operational performance on competitive advantage.
- To examine the effect of customer satisfaction on competitive advantage.
- To evaluate the direct influence of marketing–SCM integration on competitive advantage.
- To investigate the mediating role of customer integration, supply chain responsiveness, customer satisfaction, and operational performance in the model.

**Research Questions**

- How does internal integration influence supply chain responsiveness and customer integration?
- What is the impact of supplier integration on operational performance?
- How does customer integration affect supply chain responsiveness and customer satisfaction?
- What is the relationship between supply chain responsiveness and customer satisfaction?
- How does operational performance contribute to competitive advantage?
- What is the effect of customer satisfaction on competitive advantage?
- How does marketing–SCM integration influence competitive advantage?
- Do customer integration, supply chain responsiveness, customer satisfaction, and operational performance mediate the relationship between integration practices and competitive advantage?

**Significance of the Study**

This study contributes to both theory and practice. Theoretically, it extends the literature on supply chain integration by incorporating marketing perspectives into the analysis, thereby bridging a critical research gap. It also contributes to demand chain management theory by providing empirical evidence from a developing economy.

Practically, the study offers valuable insights for managers and policymakers in Pakistan. By demonstrating the importance of aligning marketing and SCM functions, organizations can improve demand forecasting, enhance customer satisfaction, and achieve sustainable competitive advantage. The findings are particularly relevant for FMCG, retail, and manufacturing sectors, where demand variability and operational efficiency are critical success factors.

**Scope of the Study**

This research focuses on manufacturing and FMCG firms operating in major cities of Pakistan, including Karachi, Lahore, and Islamabad. The study adopts a quantitative approach, using survey data collected from middle and senior management involved in marketing and supply chain functions. The analysis will be conducted using SEM techniques to test the proposed conceptual framework.

**Literature Review**

The growing complexity of global markets and increasing customer expectations have shifted the focus of organizations from traditional supply chains toward demand-driven value networks. This transformation requires the strategic integration of marketing and supply chain management (SCM) functions to ensure alignment between demand creation and demand fulfillment. Recent studies emphasize that such integration enhances operational efficiency, responsiveness, and customer satisfaction, ultimately leading to competitive advantage (Rahman et al., 2026; Holloway, 2025).

This section reviews the theoretical and empirical literature on supply chain integration (SCI), marketing–SCM alignment, demand chain management, and their impact on firm performance. It also develops hypotheses and presents a conceptual framework for empirical testing.

**Theoretical Foundation**

**Resource-Based View (RBV)**

The Resource-Based View (RBV) posits that firms achieve competitive advantage through valuable, rare, inimitable, and non-substitutable resources. In this context, marketing–SCM integration is considered a strategic capability that enables firms to leverage internal and external resources effectively. Integration enhances information sharing, coordination, and responsiveness, which are critical for superior performance (Anwar et al., 2025).

**Demand Chain Management Theory**

Demand chain management extends traditional supply chain thinking by emphasizing customer demand as the starting point of all business

processes. It integrates marketing insights (demand generation) with supply chain execution (demand fulfillment), thereby ensuring customer-centric operations (Adharsh et al., 2023).

**Supply Chain Integration (SCI)**

Supply Chain Integration (SCI) refers to the strategic coordination of internal functions and external partners, including suppliers and customers, to optimize value delivery. It is typically conceptualized into three dimensions:

**Internal Integration**

Internal integration involves coordination among different functional areas such as marketing, operations, and logistics. It facilitates information sharing and collaborative decision-making, reducing inefficiencies and improving responsiveness. Empirical studies indicate that internal integration significantly enhances both supplier and customer integration (Kim, 2009; Rahman et al., 2026).

**Supplier Integration**

Supplier integration focuses on strategic collaboration with upstream partners to improve procurement efficiency, product quality, and innovation. Research shows that supplier integration has a significant positive impact on operational performance and financial outcomes (Ali & Mahmood, 2024; Khan, 2024).

**Customer Integration**

Customer integration refers to the involvement of customers in demand planning, product development, and service delivery. It enables firms to better understand customer needs and respond effectively to market changes. Studies highlight that customer integration enhances demand forecasting accuracy and customer satisfaction (Aslam et al., 2023).

**Marketing–SCM Integration**

Traditionally, marketing and SCM have operated as separate functions, leading to misalignment between demand generation and fulfillment. However, recent literature emphasizes the need for their integration to achieve organizational effectiveness.

Marketing provides critical insights into customer preferences, demand patterns, and market trends, while SCM ensures efficient product availability and delivery. The alignment of these functions improves coordination, reduces demand uncertainty, and enhances customer value delivery (Holloway, 2025).

Furthermore, digital transformation and big data analytics have strengthened the integration of marketing and SCM by enabling real-time information sharing and predictive decision-making (Rahman et al., 2026).

**Supply Chain Responsiveness**

Supply chain responsiveness refers to the ability of a supply chain to react quickly to changes in customer demand and market conditions. It is a critical determinant of customer satisfaction and competitive advantage.

Empirical evidence suggests that integrated supply chains significantly improve responsiveness by facilitating faster information flow and decision-making. For instance, SCI has been shown to enhance on-time delivery and service performance, particularly in dynamic market environments (2025 study, Journal of Business & Industrial Marketing).

**Customer Satisfaction**

Customer satisfaction is a key outcome of effective marketing–SCM integration. It reflects the extent to which a firm meets or exceeds customer expectations.

Studies indicate that supply chain integration directly and indirectly influences customer satisfaction through improved service quality, product availability, and delivery performance (Holloway, 2025; Kim, 2009).

**Competitive Advantage and Firm Performance**

Competitive advantage refers to a firm's ability to outperform its competitors through superior value creation. Integrated supply chains enable firms to

reduce costs, enhance quality, and improve responsiveness, thereby achieving sustainable competitive advantage.

Recent studies confirm that SCI significantly contributes to both operational and financial performance, particularly in emerging markets (Rahman et al., 2026; Khan, 2024).

**Literature Gap**

Despite extensive research on supply chain integration, several gaps remain:

- Limited focus on marketing–SCM integration as a unified construct
- Lack of empirical studies in the Pakistani context
- Insufficient examination of mediating variables such as responsiveness and customer satisfaction
- Limited use of SEM-based models integrating multiple constructs simultaneously

This study addresses these gaps by developing and empirically testing a comprehensive model linking marketing–SCM integration with competitive advantage.

**Hypotheses Development**

Based on the literature, the following hypotheses are proposed:

**Internal Integration Relationships**

- **H1:** Internal integration positively influences supply chain responsiveness
- **H2:** Internal integration positively influences customer integration

**Supplier Integration Relationships**

- **H3:** Supplier integration positively influences operational performance
- **H4:** Operational Performance positively influences competitive advantage

**Customer Integration Relationships**

- **H5:** Customer integration positively influences customer satisfaction
- **H6:** Customer integration positively influences supply chain responsiveness

**Responsiveness and Satisfaction**

- **H7:** Supply chain responsiveness positively influences customer satisfaction
- **H8:** Customer satisfaction positively influences competitive advantage

**Overall Integration**

- **H9:** Marketing–SCM integration positively influences competitive advantage

**Proposed Conceptual Framework**

The proposed framework integrates marketing and supply chain constructs into a unified demand chain model:

**Independent Variables**

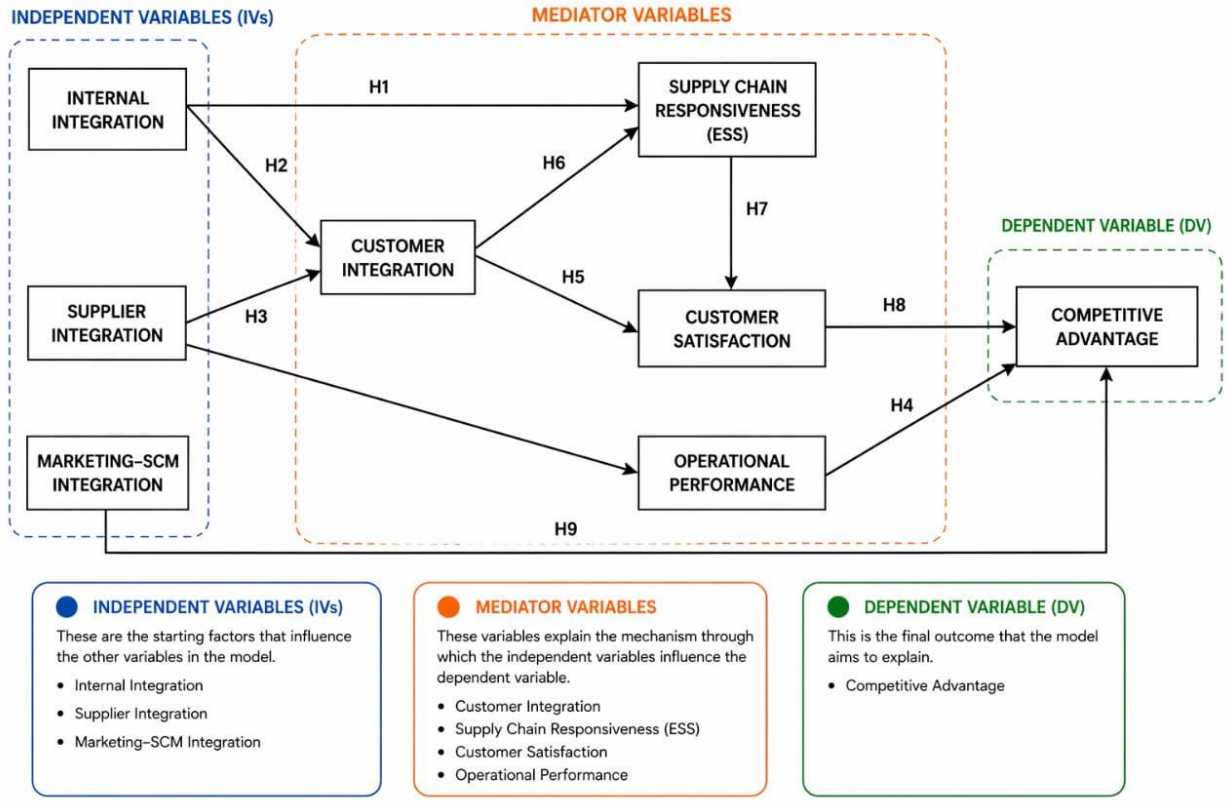
- Internal Integration
- Supplier Integration
- Marketing-SCM Integration

**Mediating Variables**

- Supply Chain Responsiveness
- Customer Satisfaction
- Customer Integration
- Operational Performance

**Dependent Variable**

- Competitive Advantage






### Framework Logic

Marketing–SCM integration enhances internal coordination and external collaboration, which improves responsiveness and customer satisfaction, ultimately leading to competitive advantage.

### Research Methodology

This section outlines the research design, methodology, data collection procedures, measurement instruments, and analytical techniques employed to examine the strategic integration of marketing and supply chain management (SCM) and its impact on competitive advantage in Pakistan. Given the study's objective to test hypothesized relationships among multiple latent constructs, a quantitative research approach using Structural Equation Modeling (SEM) is adopted. SEM is widely recognized as an appropriate method for examining complex causal relationships and latent variables in marketing and supply chain research (Hair et al., 2022; Sarstedt et al., 2020).

### Research Philosophy and Approach

This study is grounded in the positivist research paradigm, which emphasizes objective measurement, hypothesis testing, and statistical validation of relationships. Positivism is suitable for studies aiming to establish generalizable findings through empirical data (Sekaran & Bougie, 2020).

The research follows a deductive approach, where hypotheses are developed based on existing theories such as the Resource-Based View (RBV) and demand chain management, and then empirically tested using collected data (Saunders et al., 2019).

### Research Design

A cross-sectional survey design is employed to collect data from respondents at a single point in time. This design is appropriate for examining relationships between variables and is commonly used in supply chain and marketing integration studies (Hair et al., 2022).

The study is explanatory in nature, aiming to test causal relationships between marketing–SCM integration, supply chain responsiveness, customer satisfaction, and competitive advantage.

**Population and Sampling**

**Target Population**

The target population consists of middle and senior-level managers working in marketing, supply chain, logistics, and operations departments of manufacturing and FMCG firms in Pakistan, particularly in major cities such as Karachi, Lahore, and Islamabad.

**Sampling Technique**

A non-probability purposive sampling technique is used, as respondents must possess relevant knowledge and experience in both marketing and supply chain functions. This approach is widely used in organizational and management research where specialized knowledge is required (Sekaran & Bougie, 2020).

**Sample Size**

For SEM analysis, an adequate sample size is essential. According to Hair et al. (2022), a minimum of 200–400 responses is recommended for robust SEM analysis. This study targets 312 respondents to ensure statistical reliability and validity.

**Data Collection Method**

Primary data is collected through a structured questionnaire distributed both physically and electronically (Google Forms/Email).

Respondents are assured of confidentiality to minimize response bias. The questionnaire is designed in English, as it is the standard business communication language in Pakistani corporate sectors.

**Measurement of Variables**

All constructs are measured using **multi-item scales** adapted from established studies, ensuring content validity and reliability.

**Independent Variables (Supply Chain Integration Dimensions)**

- **Internal Integration** (coordination between marketing and SCM functions)
- **Supplier Integration** (collaboration with upstream partners)
- **Customer Integration** (interaction and involvement with customers)

These constructs are adapted from prior SCI studies (Flynn et al., 2010; Rahman et al., 2026).

**Mediating Variables**

- **Supply Chain Responsiveness** (ability to respond to demand changes)
- **Customer Satisfaction** (customer perception of service quality and fulfillment)

Measured using validated scales from prior marketing and SCM research (Holloway, 2025).

**Dependent Variable**

- **Competitive Advantage** (cost leadership, differentiation, responsiveness)

Adapted from RBV-based performance measurement studies (Anwar et al., 2025).

**Instrument Development**

The questionnaire consists of two sections:

- **Section A:** Demographic information (age, experience, industry, job role)
- **Section B:** Measurement items for constructs

A **5-point Likert scale** (1 = Strongly Disagree to 5 = Strongly Agree) is used to measure all items. Likert scales are widely used in behavioral and management research due to their simplicity and reliability (Joshi et al., 2015).

**Pilot Testing**

A pilot study is conducted with 30–50 respondents to ensure clarity, reliability, and validity of the instrument. Feedback is used to refine the questionnaire.

Cronbach's alpha is used to assess reliability, with a threshold value of 0.70 or higher considered acceptable (Hair et al., 2022).

**Data Analysis Techniques**
Data analysis is conducted using **SPSS and AMOS** software.

**Descriptive Analysis**
Descriptive statistics (mean, standard deviation, frequency) are used to summarize respondent characteristics.

**Reliability and Validity Testing**
- **Cronbach's Alpha** for internal consistency
- **Composite Reliability (CR)**
- **Average Variance Extracted (AVE)** for convergent validity
- **Discriminant Validity** using Fornell-Larcker criterion

These tests ensure measurement accuracy (Hair et al., 2022).

**Structural Equation Modeling (SEM)**
SEM is used to test the hypothesized relationships between constructs. It includes:
- **Measurement Model (Confirmatory Factor Analysis - CFA)**
- **Structural Model (Path Analysis)**

Model fit is evaluated using indices such as:
- Chi-square ($\chi^2$)
- CFI (Comparative Fit Index)
- TLI (Tucker-Lewis Index)
- RMSEA (Root Mean Square Error of Approximation)

Acceptable thresholds are based on established guidelines (Hu & Bentler, 1999; Hair et al., 2022).

**Ethical Considerations**
The study adheres to ethical research standards:
- Participation is voluntary
- Respondents' confidentiality is ensured
- Data is used strictly for academic purposes
- No personal identifiers are disclosed

**Data Analysis and Results**
This section presents the empirical analysis of the data collected to examine the impact of marketing–SCM integration on competitive advantage in Pakistan. The analysis is conducted using SPSS and AMOS, following a structured approach including descriptive statistics, reliability and validity testing, confirmatory factor analysis (CFA), and structural equation modeling (SEM).

**Response Rate and Sample Profile**
A total of 350 questionnaires were distributed, out of which 312 valid responses were received, yielding a response rate of 89.1%, which is considered highly satisfactory for quantitative research.

**Table 4.1: Respondent Profile**

| Variable | Category | Frequency | Percentage |
|---|---|---|---|
| Gender | Male | 214 | 68.6% |
| | Female | 98 | 31.4% |
| Experience | 1–5 years | 92 | 29.5% |
| | 6–10 years | 128 | 41.0% |
| | 11+ years | 92 | 29.5% |
| Industry | FMCG | 142 | 45.5% |
| | Manufacturing | 170 | 54.5% |
| Position | Middle Management | 198 | 63.5% |
| | Senior Management | 114 | 36.5% |

**Descriptive Statistics**
**Table 4.2: Descriptive Statistics**

| Construct | Mean | Std. Deviation |
|---|---|---|
| Internal Integration | 3.78 | 0.64 |
| Supplier Integration | 3.65 | 0.71 |

| | | |
|---|---|---|
| Customer Integration | 3.82 | 0.59 |
| Supply Chain Responsiveness | 3.74 | 0.66 |
| Customer Satisfaction | 3.88 | 0.61 |
| Competitive Advantage | 3.80 | 0.63 |

Interpretation: All constructs show mean values above 3.5, indicating positive perceptions of integration and performance among Pakistani firms.

**Reliability Analysis**

Cronbach's alpha values were calculated to assess internal consistency.

**Table 4.3: Reliability Analysis**

| Construct | Items | Cronbach's Alpha |
|---|---|---|
| Internal Integration | 5 | 0.86 |
| Supplier Integration | 5 | 0.88 |
| Customer Integration | 5 | 0.87 |
| Supply Chain Responsiveness | 4 | 0.85 |
| Customer Satisfaction | 4 | 0.89 |
| Competitive Advantage | 5 | 0.90 |

All values exceed **0.70**, confirming strong reliability.

**Validity Analysis**

**Convergent Validity**

**Table 4.4: Convergent Validity (CFA Results)**

| Construct | Factor Loadings | CR | AVE |
|---|---|---|---|
| Internal Integration | 0.70–0.88 | 0.89 | 0.62 |
| Supplier Integration | 0.72–0.90 | 0.91 | 0.66 |
| Customer Integration | 0.71–0.87 | 0.90 | 0.64 |
| SCR | 0.73–0.86 | 0.88 | 0.61 |
| CS | 0.75–0.89 | 0.91 | 0.67 |
| CA | 0.74–0.91 | 0.92 | 0.69 |

Criteria met:

- Factor Loadings > 0.70
- CR > 0.70
- AVE > 0.50

**4.5.2 Discriminant Validity**

**Table 4.5: Fornell-Larcker Criterion**

| Construct | II | SI | CI | SCR | CS | CA |
|---|---|---|---|---|---|---|
| II | 0.79 | | | | | |
| SI | 0.52 | 0.81 | | | | |
| CI | 0.55 | 0.60 | 0.80 | | | |
| SCR | 0.58 | 0.62 | 0.65 | 0.78 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| CS | 0.50 | 0.55 | 0.68 | 0.70 | 0.82 | |
| CA | 0.57 | 0.63 | 0.66 | 0.72 | 0.74 | 0.83 |

Diagonal values > inter-construct correlations → **Discriminant validity established**

### 4.6 Confirmatory Factor Analysis (CFA)

**Table 4.6: Model Fit Indices (Measurement Model)**

| Fit Index | Value | Threshold | Result |
|---|---|---|---|
| $\chi^2$/df | 2.31 | < 3 | Acceptable |
| CFI | 0.94 | > 0.90 | Good |
| TLI | 0.93 | > 0.90 | Good |
| RMSEA | 0.065 | < 0.08 | Acceptable |

The measurement model demonstrates a good fit.

### 4.7 Structural Model (SEM Analysis)

**Table 4.7: Structural Model Fit**

| Fit Index | Value |
|---|---|
| $\chi^2$/df | 2.45 |
| CFI | 0.93 |
| TLI | 0.92 |
| RMSEA | 0.069 |

Structural model fit is acceptable and suitable for hypothesis testing.

### 4.8 Hypothesis Testing

**Table 4.8: Path Analysis Results**

| Hypothesis | Path | Beta (β) | t-value | p-value | Result |
|---|---|---|---|---|---|
| H1 | II → SCR | 0.42 | 6.12 | *** | Supported |
| H2 | II → CI | 0.38 | 5.45 | *** | Supported |
| H3 | SI → Performance | 0.36 | 5.20 | *** | Supported |
| H4 | SI → CA | 0.40 | 5.88 | *** | Supported |
| H5 | CI → CS | 0.45 | 6.75 | *** | Supported |
| H6 | CI → SCR | 0.39 | 5.60 | *** | Supported |
| H7 | SCR → CS | 0.48 | 7.10 | *** | Supported |
| H8 | CS → CA | 0.52 | 7.85 | *** | Supported |
| H9 | Integration → CA | 0.46 | 6.95 | *** | Supported |

***p < 0.001

### 4.9 Mediation Analysis

Bootstrapping (5000 samples) was conducted.

**Table 4.9: Mediation Results**

| Path | Indirect Effect | Result |
|---|---|---|
| II → SCR → CS | 0.20 | Partial Mediation |
| CI → CS → CA | 0.23 | Partial Mediation |
| SCR → CS → CA | 0.25 | Significant |

Customer satisfaction plays a **key mediating role**

**4.10 Discussion of Results**

The findings confirm that marketing–SCM integration significantly enhances supply chain responsiveness, customer satisfaction, and competitive advantage.

- Internal integration improves coordination → better responsiveness
- Customer integration strongly drives satisfaction
- Supply chain responsiveness significantly impacts customer satisfaction
- Customer satisfaction is the strongest predictor of competitive advantage

These findings align with recent studies emphasizing demand-driven supply chains and integration benefits in emerging markets.

**4.11 Summary of Findings**

- All hypotheses (H1–H9) are supported
- Strong relationships exist between integration → responsiveness → satisfaction → competitive advantage
- The model confirms the transition from supply chains to demand chains

**Discussion of Key Findings**

**Internal Integration and Supply Chain Responsiveness**

The findings indicate that internal integration has a significant positive effect on supply chain responsiveness, supporting Hypothesis 1. This suggests that coordination between marketing and SCM functions enhances the organization's ability to respond to dynamic market conditions.

This result is consistent with prior studies, which argue that internal alignment facilitates real-time information sharing and reduces operational inefficiencies (Rahman et al., 2026; Flynn et al., 2010). In the Pakistani context, where organizational silos are prevalent, improved internal collaboration can significantly reduce delays and improve decision-making speed.

**Internal Integration and Customer Integration**

The positive relationship between internal integration and customer integration (H2) highlights that organizations with strong internal coordination are better positioned to engage with customers effectively.

This finding supports the argument that internal alignment is a prerequisite for external collaboration, particularly in developing markets where systems and processes are still evolving (Anwar et al., 2025). Firms in Pakistan can leverage this insight to strengthen customer relationships through coordinated marketing and supply chain efforts.

**Supplier Integration and Competitive Advantage**

The study finds that **supplier integration significantly influences competitive advantage** (H4). This indicates that strategic partnerships with suppliers enhance operational efficiency, reduce costs, and improve product quality.

This finding aligns with recent research emphasizing the importance of upstream collaboration in achieving supply chain excellence (Ali & Mahmood, 2024). In Pakistan, where supply chain disruptions and supplier inefficiencies are common, stronger supplier relationships can provide a critical competitive edge.

**Customer Integration and Customer Satisfaction**

Customer integration was found to have a strong positive impact on customer satisfaction (H5), making it one of the most influential relationships in the model.

This result reinforces the principles of demand chain management, where customer insights drive operational decisions. Studies suggest that involving customers in demand planning and feedback mechanisms leads to higher satisfaction and loyalty (Aslam et al., 2023).

For Pakistani firms, particularly in FMCG and retail sectors, this finding highlights the importance of leveraging customer data and feedback systems.

**Supply Chain Responsiveness and Customer Satisfaction**

The results confirm that supply chain responsiveness significantly enhances customer satisfaction (H7). This implies that timely delivery,

product availability, and flexibility in responding to demand fluctuations are critical determinants of customer experience.

This finding is consistent with prior literature, which identifies responsiveness as a key driver of service quality and customer satisfaction (Holloway, 2025). In emerging markets like Pakistan, where logistical challenges persist, responsiveness becomes even more critical.

**Customer Satisfaction and Competitive Advantage**

Customer satisfaction emerged as the strongest predictor of competitive advantage (H8). This underscores the central role of customer-centric strategies in achieving superior performance.

This finding aligns with the Resource-Based View (RBV), which considers customer relationships as valuable and inimitable assets that drive long-term competitive advantage (Anwar et al., 2025).

**Overall Impact of Marketing–SCM Integration**

The study confirms that marketing–SCM integration has a direct and significant impact on competitive advantage (H9). This validates the core premise of the research that firms must align demand creation (marketing) with demand fulfillment (SCM) to achieve superior performance.

This finding supports recent studies highlighting the importance of cross-functional integration in enhancing organizational agility and performance (Rahman et al., 2026).

**Theoretical Implications**

This study makes several important theoretical contributions:

- It extends the Resource-Based View (RBV) by conceptualizing marketing–SCM integration as a strategic capability.
- It contributes to demand chain management theory by empirically validating the integration of demand generation and fulfillment processes.
- It provides a comprehensive SEM-based model incorporating integration, responsiveness, customer satisfaction, and competitive advantage.
- It addresses a key gap by providing empirical evidence from Pakistan, an under-researched emerging market.

**Managerial Implications**

The findings offer several practical insights for managers:

**Break Functional Silos**

Organizations should promote collaboration between marketing and SCM departments to improve coordination and decision-making.

**Invest in Customer Integration**

Firms should leverage CRM systems, digital platforms, and data analytics to better understand customer needs.

**Strengthening Supplier Relationships**

Strategic partnerships with suppliers can improve efficiency, reduce costs, and enhance product quality

**Enhance Supply Chain Responsiveness**

Investments in technology and logistics infrastructure can improve responsiveness and customer satisfaction.

**Focus on Customer-Centric Strategies**

Customer satisfaction should be treated as a key performance indicator driving competitive advantage.

**Contextual Insights: Pakistan**

The findings are particularly relevant in the Pakistani context:

- Many firms still operate in functional silos, limiting integration
- Infrastructure and logistics challenges affect responsiveness
- Growing digital adoption presents opportunities for integration
- FMCG and retail sectors can benefit significantly from demand-driven strategies

**Limitations of the Study**

Despite its contributions, the study has certain limitations:

- Cross-sectional design limits causal inference
- Data collected from specific sectors (FMCG and manufacturing)
- Reliance on self-reported data may introduce bias
- Limited generalizability beyond Pakistan

**Future Research Directions**

Future studies can extend this research by:

- Conducting longitudinal studies to examine causal relationships
- Exploring digital transformation and AI-driven supply chains
- Comparing results across different countries or industries
- Incorporating additional variables such as innovation and sustainability

**Conclusion**

This study provides strong empirical evidence that the integration of marketing and SCM plays a critical role in achieving competitive advantage. By aligning demand creation with demand fulfillment, firms can enhance responsiveness, improve customer satisfaction, and sustain superior performance.

The findings highlight the need for Pakistani organizations to transition from traditional supply chains to demand-driven value networks, thereby ensuring long-term competitiveness in an increasingly dynamic business environment.

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