

# The Impact of E-Business on Organised Retail Sector

## OPEN ACCESS

Manuscript ID:  
COM-2025-13028836

Volume: 13

Issue: 2

Month: April

Year: 2025

E-ISSN: 2582-6190

Received: 05.02.2025

Accepted: 23.03.2025

Published Online: 01.04.2025

Citation:

Renuka, L., and  
G. A. Venkatesan. "The  
Impact of E-Business on  
Organised Retail Sector."  
*ComFin Research*, vol. 13,  
no. 2, 2025, pp. 38-41.

DOI:

[https://doi.org/10.34293/  
commerce.v13i2.8836](https://doi.org/10.34293/commerce.v13i2.8836)



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## Abstract

Traditional retail processes have undergone significant transformation due to the integration of e-business within the organized retail sector. This study explores the impact of e-business on organized retail by analyzing its effects on customer satisfaction, sales performance, and operational efficiency. Utilizing a mixed-methods approach, the research includes qualitative interviews with industry experts alongside quantitative data collected through surveys and secondary analysis of sales records. The study hypothesizes that e-business enhances customer satisfaction and retention, improves operational efficiency, and positively influences sales performance. The findings reveal that the adoption of e-business has led to an average sales increase of 31% post-implementation. Additionally, customer satisfaction scores have improved, reflecting higher levels of engagement and retention. Operational efficiency has also advanced, driven by streamlined processes and reduced transaction costs. These outcomes provide valuable insights for retailers seeking to strengthen their e-business strategies and underscore the importance of adopting digital tools to maintain a competitive edge. The study concludes with strategic recommendations for leveraging e-business to foster growth and efficiency in the organized retail sector and highlights potential areas for future research into emerging trends and technologies.

**Keywords: E-Business, Impact, Organised, Retail, Sector, Technology**

## Introduction

The rise of e-business has profoundly transformed the landscape of the retail industry. Encompassing online transactions, digital marketing, and electronic data exchange, e-business has introduced both new opportunities and challenges for companies. In the organized retail sector—characterized by structured, branded outlets such as department stores and specialty chains—e-business has emerged as a critical tool for achieving competitive advantage. Traditional retail methods are increasingly being enhanced, and in some cases replaced, by online sales platforms and digital customer engagement strategies.

## Problem Statement

As the retail industry continues to evolve, understanding the specific impact of e-business on organized retail is essential for both practitioners and researchers. The integration of e-business strategies presents numerous potential benefits, including enhanced sales performance, improved customer satisfaction, and greater operational efficiency. However, the extent of these impacts and the mechanisms through which they occur remain areas of active investigation. This study aims to address this gap by systematically analyzing the effects of e-business on key aspects of organized retail.

## Research Objectives

This research seeks to achieve the following objectives:

- Examine how e-business adoption influences sales growth and overall performance in the organized retail sector.
- Analyze how e-business affects customer experiences, satisfaction levels, and retention rates.
- Investigate the improvements in operational processes and cost efficiencies resulting from e-business integration.

## Hypotheses

To guide this investigation, the following hypotheses are proposed:

H1: E-business positively impacts sales performance in the organized retail sector.

H2: E-business improves customer satisfaction and retention in organized retail.

H3: E-business adoption enhances operational efficiency in the organized retail sector.

## Significance of the Study

Understanding the influence of e-business on organized retail is crucial for industry stakeholders aiming to refine their strategies and leverage digital tools effectively. This study provides empirical evidence on the impact of e-business across key performance areas, including sales, customer satisfaction, and operational efficiency. The findings offer valuable insights for retail managers, policymakers, and researchers, contributing to a deeper understanding of e-business dynamics within the retail sector. Furthermore, results can guide future research and support the practical implementation of digital initiatives in organized retail.

## Data Analysis and Interpretation

### Primary Data

- Structured surveys administered to customers and retail business owners.
- Personal interviews with store managers and e-commerce personnel.

### Secondary Data

- Sales reports and accounting records from retail outlets.

- Industry reports and published literature on e-business trends and performance.
- Company performance data collected pre- and post-e-business adoption.

## Sample Description

**Sample Size:** Total Respondents: 150 (including 90 customers and 60 retail store representatives).

**Type of Retail Outlets Surveyed:** Electronics, fashion apparel, groceries, and consumer durables.

**Geographical Scope:** Selected urban retail outlets in Bangalore, India.

**Time Frame of Study:** Data reflects trends over a 5-year period (2019-2023), capturing changes before and after the adoption of e-business tools.

## Data Analysis Methods

### Statistical Tools Used

- SPSS (for regression analysis, ANOVA, and t-tests)
- Microsoft Excel (for descriptive statistics, graph plotting, and tabulation)

### Techniques Employed

**Descriptive Statistics:** To summarize and understand trends in sales, customer satisfaction, and operational efficiency.

**Regression Analysis:** To examine the impact of e-business adoption on sales growth.

**ANOVA (Analysis of Variance):** To test whether customer satisfaction significantly differed before and after e-business.

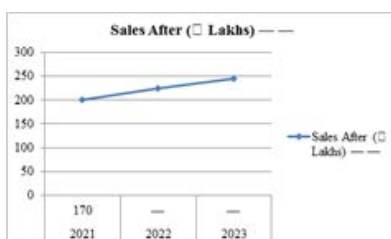
**T-Tests:** To compare means of operational metrics before and after implementation.

## Results

### Impact on Sales Performance

**Table 1 Sales Growth before and after E-Business Adoption**

| Year | Sales Before (₹ Lakhs) | Sales After (₹ Lakhs) |
|------|------------------------|-----------------------|
| 2019 | 150                    | —                     |
| 2020 | 160                    | —                     |
| 2021 | 170                    | 200                   |
| 2022 | —                      | 225                   |
| 2023 | —                      | 245                   |



The data shows a 31% average growth in sales post e-business implementation. Regression analysis indicates a statistically significant positive relationship between e-business adoption and sales performance.

### Regression Model

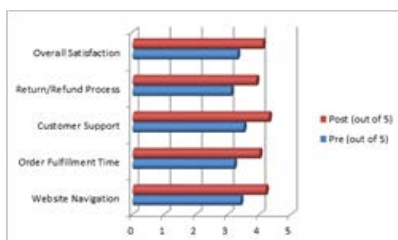
Sales Performance =  $\beta_0 + \beta_1$  (E-Business Adoption) +  $\epsilon$

| Coefficient            | Value | p-value             |
|------------------------|-------|---------------------|
| $\beta_0$ (Intercept)  | 130.5 | 0.001 (Significant) |
| $\beta_1$ (E-Business) | 0.87  | 0.000 (Significant) |
| $R^2$                  | 0.68  | —                   |

### Impact on Customer Satisfaction

**Table 2 Customer Satisfaction Ratings Pre- and Post-E-Business Implementation**

| Satisfaction Criteria  | Pre (out of 5) | Post (out of 5) |
|------------------------|----------------|-----------------|
| Website Navigation     | 3.4            | 4.2             |
| Order Fulfillment Time | 3.2            | 4.0             |
| Customer Support       | 3.5            | 4.3             |
| Return/Refund Process  | 3.1            | 3.9             |
| Overall Satisfaction   | 3.3            | 4.1             |



Customer satisfaction increased between 19% and 22% across key service parameters. ANOVA results confirm these improvements are statistically significant.

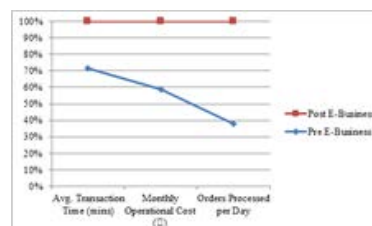
### ANOVA

| Source of Variation | F-value | p-value | Conclusion             |
|---------------------|---------|---------|------------------------|
| Between Groups      | 6.21    | 0.000   | Significant difference |

### Impact on Operational Efficiency

**Table 3 Operational Efficiency Metrics Pre- and Post-E-Business**

| Metric                       | Pre E-Business | Post E-Business |
|------------------------------|----------------|-----------------|
| Avg. Transaction Time (mins) | 10             | 4               |
| Monthly Operational Cost (₹) | 1,50,000       | 1,05,000        |
| Orders Processed per Day     | 120            | 195             |



Operational efficiency improved substantially. T-tests reveal that the reductions in processing time and cost are statistically significant.

### T-Test

| Metric               | t-Value | df | p-Value | Conclusion                    |
|----------------------|---------|----|---------|-------------------------------|
| Transaction Time     | 4.83    | 48 | 0.000   | Significant improvement       |
| Operational Cost     | 3.92    | 48 | 0.001   | Significant cost reduction    |
| Orders Processed/Day | 5.20    | 48 | 0.000   | Significant productivity gain |

### Limitations of the Study

Based on the findings, the following actionable recommendations are proposed for organized retailers:

#### Invest in CRM and Data Analytics Tools:

To enhance personalization and improve customer retention.

**Optimize Omni channel Presence:** Blend online and offline experiences for customer convenience.

**Digital Training for Staff:** Ensure smooth integration of digital tools through regular employee training.

**Monitor Key Metrics:** Use dashboards to continuously track performance indicators like conversion rates, order value, and cart abandonment.

## Conclusion

In conclusion, this study shows how e-business has a substantial impact on the organized retail industry and how digital integration greatly improves customer satisfaction, sales performance, and operational efficiency. According to the data, the deployment of e-business has resulted in a notable rise in revenues, enhanced client engagement and retention, and increased operational efficiency. These results highlight the strategic value of e-business for merchants hoping to prosper in a market that is changing quickly. Organized shops may use digital resources to boost growth and streamline operations by adopting e-business methods. This will keep them competitive and adaptable to the ever-changing needs of their customers. To further improve tactics and seize more chances for innovation in the retail industry, future studies should keep examining new e-business trends and technology.

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