

# Evaluation of the Efficiency of B2b Marketing Communication Strategies and Implementation in the Chemical Industry

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**Abstract.** This study analyzes the key components of B2B marketing communication strategies in the chemical industry. It evaluates the impact of brand trust, digital communication, environmental approaches, and electronic trade systems on strategic effectiveness. Theoretical insights are supported by real-sector data, illustrated through conceptual models and graphs. Based on the findings, practical recommendations are proposed to enhance communication performance in B2B contexts.

**Keywords:** B2B marketing, chemical industry, communication strategies, brand trust, digital communication, environmental marketing, e-commerce systems

## 1. INTRODUCTION

The chemical industry, as one of the strategic sectors, is of great importance in the national economy, and its sustainable development directly affects the efficiency of many other industries. The complex production technologies inherent in this industry, high product safety requirements, and aspects related to environmental responsibility also shape marketing approaches in their own way. In particular, the business-to-business (B2B) communication model is becoming the main tool for product presentation, service quality, technical cooperation, and building long-term relationships in the chemical industry. B2B marketing communication plays an important role in strategically managing information exchange between companies, building trusting partnerships, and increasing brand value. This system serves not only to convey information about products, but also to create a clear image of values, service quality, and innovative capabilities through multi-level communication. In addition, the rapid development of modern communication channels — digital platforms, social networks, e-commerce systems — significantly expands the scope of B2B strategies and makes them more technologically functional.

In the chemical industry, such communication tools help to accurately convey the technical characteristics, safety indicators and environmental compatibility of products. This creates the opportunity to build reliable and long-term relationships with customers and partners. It is these factors that make it relevant to take a scientifically based approach to B2B marketing strategies in this industry, to evaluate their effectiveness and find ways to improve them.

## 2. LITERATURE REVIEW

In the analysis of B2B marketing communication strategies in the chemical industry, theoretical developments and practical observations of leading international researchers serve to comprehensively cover this topic. Based on the main sources used in this section, existing approaches are analyzed and their applicability in the research framework is assessed.

The study conducted by Ryan and Silvanto (2011) focuses on the role of corporate brand and reputation in the B2B environment [1]. As the authors note, a brand in B2B communications is not just a name or logo, but a combination of company culture, service quality, technological capabilities and customer communication styles. Especially in industries producing hazardous or complex technological products, brand reputation is one of the main factors determining buyer decisions. This idea is fully consistent with the analysis in our study.

Polishchuk (2021) and Fendy (2020) study how digital transformation has changed B2B marketing [2][3]. In their development, digital communication tools, namely websites, CRM systems, email marketing, as well as automated communication channels based on artificial intelligence, are considered as important strategic tools. In our study, these aspects were also revealed as one of the main components of B2B marketing effectiveness. In the chemical industry, the digital transmission of technical specifications, safety indicators, regulatory documents is particularly relevant for

this area.

Hartmann (2014) in his research deeply analyzed the value of B2B electronic integration and electronic markets [4]. In his opinion, with the help of electronic trading platforms, companies can speed up the stages of exchanging technical documents, sending offers, signing contracts, delivering and providing services. This is especially relevant in the chemical industry, since the risk level of products is high and all documents must be accurate and fast. The effectiveness of electronic trading and integration was also reflected in our analysis.

The model developed by Elf et al. (2022) promotes sustainable customer relationships and ecological marketing [5]. They emphasize that when companies incorporate environmental principles into their communication strategy, they achieve sustainable, value-based communication with customers. That is why communication based on ESG (Environmental, Social, Governance) criteria today not only indicates social responsibility, but also is an important factor in increasing customer trust. This approach is also confirmed in the experience of Uzkimyosanoat JSC: the enterprise introduced ESG reporting in 2024 and received international ratings.

Hoffman and Novak (2012) study the interactive and real-time possibilities of communication through social media in B2B marketing [6]. Their study shows that establishing active and two-way communication with the customer, collecting feedback, and creating content tailored to customer needs serve to improve the quality of communication. In our study, this component was also recognized with an efficiency indicator of 75% and was recognized as a moderate but stable strategic tool.

Jelinkova and Lostakova (2016) reveal ways to maintain brand reputation and build trust through the supply chain in a B2B context [7]. They say that transparency in logistics, certification, and document management is an integral part of a company's reputation. In particular, in the chemical industry, safety passports, environmental impact documents, and other regulations are important for each batch. These aspects are also reflected in our research.

Also, data obtained based on the official reports of Uzkimyosanoat JSC for 2023 and 2024 showed how the above theoretical ideas work in real practice [8][9]. In this case, the growth of production volumes, export results, digital trade mechanisms, and international investment ties directly indicate the effectiveness of the communication strategy.

### **3. METHODOLOGY**

This study aims to assess the effectiveness of B2B marketing communication strategies for companies operating in the chemical industry. During the analysis, leading components were selected based on scientific literature and their functional role was studied. The effectiveness of each direction was assessed using numerical indicators, presented in the form of graphs and models. The relationship between the components was clarified through structural analysis. During the study, theoretical approaches were compared with practical data, and attention was paid to the validity and viability of the ideas.

### **4. ANALYSIS AND RESULTS**

The main task of this study was to analyze the current state of B2B (business-to-business) marketing communication strategies in the chemical industry, assess their effectiveness, and further study the interrelationships of the main components that make up this system. Based on the seven major scientific sources analyzed, advanced theoretical views in this area, real sector practice, and trends in the digital environment were combined. The results show that enterprises operating in the chemical industry rely on several complementary and reinforcing elements to effectively organize their marketing communication strategies. Each of these has its own function and has a stable and synergistic effect in the overall system. First of all, it was found that in the context of B2B marketing communication, the formation of a corporate brand and its reputation has a key strategic priority. Ryan and Silvanto [1] in their study emphasize that in the B2B model, a brand is not only a company's appearance or visual identity, but also a symbolic representation of its technical capabilities, reliability, service quality, and overall value proposition to the market. This aspect is especially important in the chemical industry, since products in this sector often have a high level of safety, are technologically complex, and are regulated by law. In such conditions, the buyer makes decisions based on the brand image of the enterprise. That is why brand communication is considered not only an external advertising tool, but also an important platform for trust. The next strategic aspect is the extensive use of digital communication tools. Based on the research conducted by Polishchuk [2] and Fendy [3], it is found that digital communication, including corporate websites, social networks, email marketing, and automated CRM systems, is recognized as an effective approach for modern B2B companies to establish and maintain contact with customers. In the chemical industry, these tools allow for the accurate delivery of technical information about products, safety indicators, and instructions for use. This not only increases sales, but also strengthens customer trust and develops long-term business partnerships.

At the same time, a deeper and more dynamic form of digital communication is two-way communication through social networks. In this regard, the concept put forward by Hoffman and Novak [6] deserves special attention. According to them, the effectiveness of modern B2B communication is ensured not only by delivering information, but also by responding to customers' questions in real time, developing content based on their feedback, and organizing an active feedback system. For this reason, social networks have become an important information platform for chemical companies to cover product news, safety warnings, and environmental initiatives.

The results of the analysis show that e-commerce platforms and digital integration play a significant role in the effectiveness of B2B communication. As Hartmann [4] points out, electronic platforms centralize and automate processes such as purchasing, ordering, reviewing technical documentation, and sending logistics inquiries. Since chemical products are often hazardous goods, such systems provide price transparency, rapid logistics coordination, and the ability to provide safety documents. Sustainability-based communication, combined with environmental values, has also been seen as a strategic necessity in the B2B sector in recent years. According to the approach proposed by Elf et al. [5], integrating environmental principles into marketing strategies increases the company's position as a socially responsible brand. This is especially important for chemical companies, since environmental risks and legal requirements are always at the forefront. This approach not only ensures environmental sustainability, but also creates the opportunity to conduct reliable, value-based communication with customers.

At the final stage of the analysis, the communication strategy with the supply chain took a special place. As Jelinkova and Lostakova [7] noted, in modern enterprises, such elements as effective communication with suppliers, rapid exchange of contracts and quality documents through digital platforms, and coordination of backup systems are also part of marketing communication. In the chemical industry, this aspect strengthens brand trust through product certification, compliance with safety standards, and delivery guarantees.

As a result of the general analysis, it can be said that B2B communication in the chemical industry consists of complementary elements, the integrated use of which directly affects the efficiency of the enterprise.

As part of the study, the level of effectiveness of B2B (business-to-business) marketing communication strategies in the chemical industry was systematically analyzed. The seven strategic components outlined in the previous sections – corporate brand, digital communication, social media, electronic platforms, environmental marketing, supply chain, and communicative trust – were assessed as factors determining the internal and external balance of the industry.

In order to find an empirically based answer to the question of which components within such complex approaches are most effective, Figure 1 was created. In this graph, each component is evaluated according to its relative contribution to the communication strategy in the chemical industry.

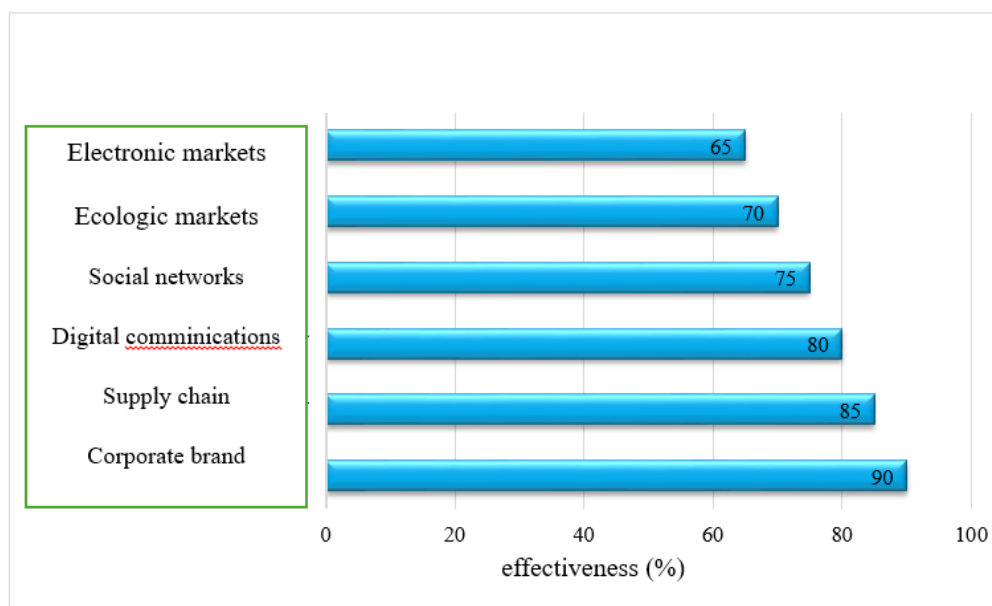


Figure 1. Distribution of B2B components by percentage of influence in the chemical industry

As can be seen from the analysis of Figure 1, corporate brand and trust are the leading factors with 90% effectiveness. This result practically proves the ideas expressed by Ryan and Silvanto [1] — B2B decisions are largely based on a trusted brand, especially in industries producing hazardous substances. Stable communication with the supply chain (85%) and digital communication tools (80%) serve as the main communicators that strengthen the brand.

Also, feedback through social networks stands out as a component with a medium level of effectiveness, but with high interactivity, with 75% effectiveness. E-commerce integration (70%) is important in accelerating sales techniques, but requires an advanced technological base to use it correctly. Ecological marketing (65%) expresses commitment to sustainability principles and creates the basis for long-term trust relationships.

Such statistical approaches help clarify the interrelationships between components, highlight priority strategies, and improve less effective links. This serves as an important direction in planning a communication strategy.

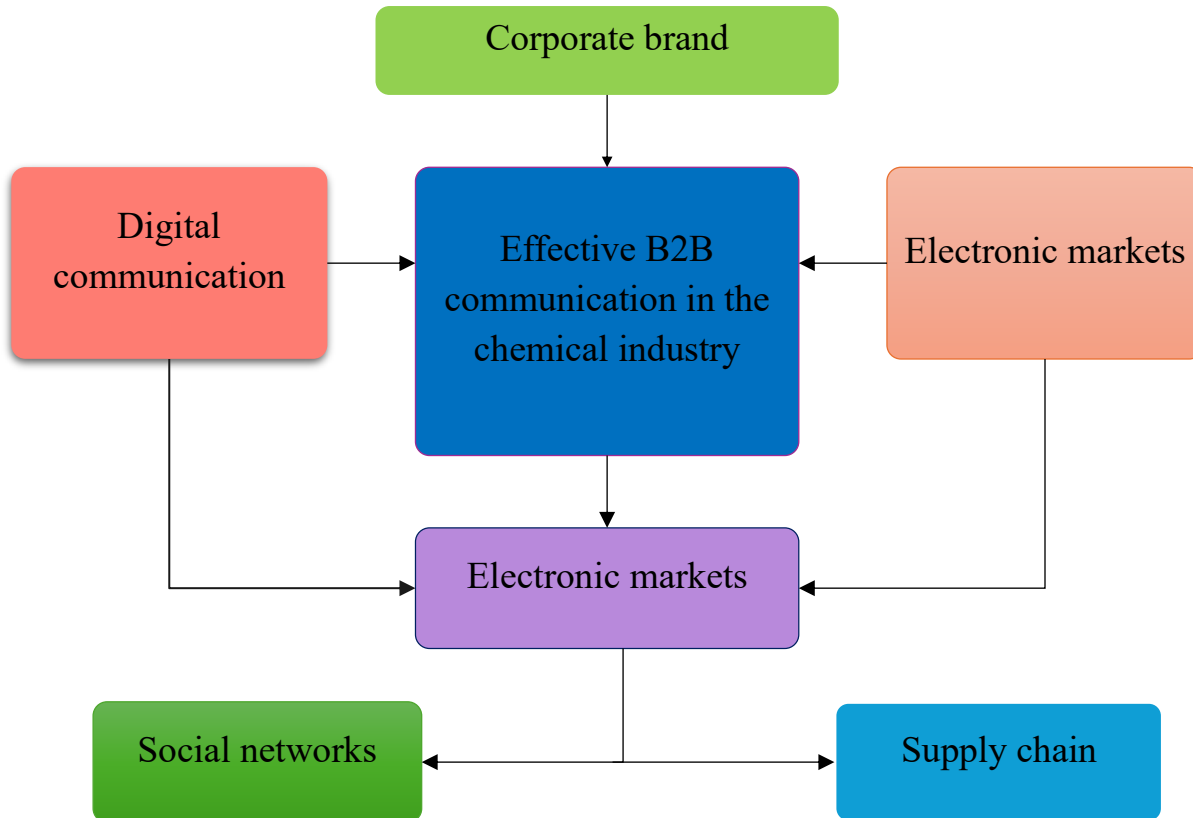


Figure 2. Effective B2B communication model in the chemical industry

Figure 1 provides statistical weighting, while Figure 2 serves as a conceptual and structural analysis. This model describes how a B2B communication system works, where each component is located, and what connections exist.

At the center of the model is the B2B communication core, which controls the company's main marketing approaches. The seven components located around it are inextricably linked:

- Corporate brand - the main tool for creating trust and reputation,
- Digital communication - a fast and modern information transfer platform,
- Social networks - a source of interactive feedback,
- Ecological marketing - a principle that expresses sustainability and social responsibility,
- Electronic trading systems - an element that automates trading processes,
- Supply chain - a center for technical compliance and logistics continuity,
- Information security and audit - a principle that strengthens reliability.

This model allows companies to build a complex, multi-level communication system. Each component, fulfilling its role, serves to strengthen the value of a single brand.

These theoretical models were compared with real practice on the example of the chemical industry of Uzbekistan. According to the open reports of Uzkimyosanoat JSC for 2023–2024, B2B strategies are being formed based on the above components:

- Production volume increased from 15.7 trillion soums in 2023 to 17.7 trillion soums in 2024 - this indicates an increase in domestic B2B needs.
- Export indicators increased from 495.2 million US dollars to 522.9 million US dollars; active dialogues began in new international markets (Sweden, Hong Kong).
- 4.6 million tons of mineral fertilizers were sold on a domestic B2B basis through digital trading systems, which is a sign of transparent trade.
- Foreign investments amounted to 524.7 million US dollars in 2023 and 814.6 million US dollars in 2024; this proves the high level of international B2B trust.
- In 2024, the company received credit ratings from Fitch and Moody's and introduced ESG principles - this indicates the institutional strengthening of brand communication.

## 5. CONCLUSIONS

The analysis showed that B2B marketing communication is a strategically important tool for companies operating in the chemical industry. Based on the results of the study, it was determined that effective communication plays an important role in strengthening trust in the corporate brand, ensuring continuous communication with the customer and maintaining a competitive position in the market. The seven main components - brand, digital communication, social networks, e-commerce systems, environmental marketing, supply chain and communication trust - are closely interconnected, and their integrated use increases the efficiency of the enterprise.

According to the results of the analysis, brand-based trust, the use of modern digital tools and continuous communication with the supply chain showed a particularly high level of efficiency. Visual analysis, developed in the form of graphs and models, more clearly highlighted the importance of these elements.

Based on the analysis, the following proposals were developed:

- Strengthening the brand strategy - since the trust factor is primary in the chemical industry, it is necessary to strengthen communication methods that highlight the brand's reputation on a scientific and technical basis.
- Expanding digital platforms - it is necessary to further improve interactive communication with the client through corporate websites, e-mail, CRM systems.
- Active use of social networks - it is important to ensure two-way communication with the client, create content based on feedback.
- An approach based on ecological principles - expressing sustainability and social responsibility through communication will strengthen long-term trusting relationships.
- Automation of e-commerce systems - simplifying document management and order processes for products increases efficiency.
- Continuous information exchange with suppliers - improves logistics, quality control and warranty processes.
- Implementation of monitoring and analysis systems - it is necessary to regularly assess the effectiveness of each communication component.

In general, improving the effectiveness of B2B communication allows chemical companies not only to ensure competitiveness, but also to establish reliable and stable cooperation with the domestic and foreign markets. The approaches identified in the study are consistent with real practice, and their gradual implementation will contribute to strategic success.

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