



Innovation-Driven Growth: A Case Study of Xiaomi Corporation

Meina Wu*

School of Economics and Management, Guangzhou Institute Of Science And Technology,
Guangzhou City, Guangdong Province, 510540, China

*167329749@qq.com

Abstract. In the era of global economic integration and rapid technological advancement, innovation has become the core driving force for enterprises to achieve sustainable growth. From smartphones to artificial intelligence, from e-commerce to new energy vehicles, innovation continuously creates new industries and business models, reshaping the market competition landscape. This paper focuses on the relationship between innovation and growth, taking Xiaomi Corporation as a specific case for in-depth analysis. Drawing on the theories of the Value Chain and the Smile Curve, this paper expounds on the key role of innovation in enterprise growth, by focusing on new product development, commercial opportunity mining, and the latest industry exploration. The findings indicate that Xiaomi has made many breakthroughs in core technology fields through continuous technological innovation and increased R&D investment. By developing a unique business model—integrating hardware, internet services, and new retail—Xiaomi has leveraged innovation to establish a competitive advantage. Additionally, the company has actively pursued ecosystem-based innovation by investing in and incubating numerous ecological chain enterprises, resulting in a robust smart hardware ecosystem and a highly competitive "vehicle-home full ecology."

Keywords: Innovation, Xiaomi Corporation, Ecological Chain, Smile Curve

1 Introduction

As a technology enterprise that has rapidly risen within just over a decade, Xiaomi Corporation's growth history is full of innovation marks. As of 2024, Xiaomi Corporation has been selected into the Fortune "Global 500" list for six consecutive years. Innovation promotes enterprise development by reconstructing products, services, and business models. At the product innovation level, disruptive product R&D has proven essential in activating latent market demand. Service innovation focuses on the differentiated construction of customer experience, which echoes the service quality gap model proposed by Zeithaml, proving that service innovation can enhance customer stickiness by improving customer perceived value[1]. The theoretical framework of

"business model as a dynamic system" proposed by Casadesus-Masanell & Ricart indicates that business model innovation can redefine transaction logic and facilitate entry into emerging markets[2]. Taking Xiaomi Corporation as an example, this paper deeply explores the relationship between innovation and growth, focusing on how innovation drives enterprises to achieve growth, particularly its role in new product development, commercial opportunity mining, and the latest industry exploration. In addition, this paper analyzes Xiaomi Corporation's innovation and growth strategies with the help of value chain and smile curve theories. As an enterprise that has achieved remarkable achievements in innovation and growth, Xiaomi's experience has important reference value for other enterprises. This study aims to provide specific innovation strategies and growth model references for other enterprises, helping them understand how to achieve rapid growth and sustainable development through technological innovation, product innovation and business model innovation.

2 Literature Review

In recent years, with the development of the digital economy and the advancement of the global technological innovation wave, the innovation capability of enterprises has become a key factor driving high-quality growth. Chinese technology enterprises, represented by Xiaomi Corporation are realizing the transformation from "followers" to "leaders" through continuous technological innovation, product upgrading, and business model optimization. The research on Xiaomi's innovation-driven growth is also increasingly abundant, mainly focusing on the following aspects:

First, technological innovation and R&D investment remain the core issues of research in recent years. Wu Yuejiao points out that Xiaomi Corporation has continuously increased R&D investment and has made breakthroughs in core technology fields such as the full-screen, camera, wireless fast charging, one-finger connection, and centimeter-level precise positioning in the living room[3]. Second, regarding business model innovation, Huang Zihui puts forward the view that "Xiaomi Corporation adopts a 'light asset' model, focuses on product innovation and customer experience, develops and launches diversified smart products, and outsources the intermediate links of the supply chain to other companies" to achieve a diversification strategy[4]. Third, growing attention is being paid to Xiaomi's brand internationalization and supply chain optimization. Feng Tangqiang mentions that through collaborative production with high-quality domestic and foreign original design manufacturers, Xiaomi has successfully established a high-efficiency and low-cost supply chain network, which is of great support significance for its overseas expansion and diversified product strategy[5].

Overall, although existing studies have comprehensively discussed Xiaomi's strategies and effectiveness in innovation-driven growth, several limitations remain: (1) Most studies rely heavily on qualitative analysis and lack deeper empirical or theoretical exploration; (2) The internal mechanism between innovation-driven growth and enterprise growth is not deeply discussed, and only a single theory is used. Based on the previous research, this study aims to systematically discuss how Xiaomi realizes enter-

prise growth and transformation through continuous innovation combined with the latest data. Compared with the existing literature, the innovations of this paper are as follows: (1) Breaking through the traditional single-innovation-dimension analysis model and deeply analyzing from the four dimensions of the product, technology, business model, and market; (2) Deeply excavating Xiaomi Corporation's unique business model of "hardware + internet services", analyzing its formation background, operation mechanism, advantages, and challenges, and providing valuable references for other enterprises in business model innovation; (3) Using value chain and smile curve theories for research and analysis.

3 Research on the Relationship between Innovation and Enterprise Growth

3.1 The Concept and Mechanism of Innovation

The concept of "innovation" can be traced back to the classic definition proposed by Schumpeter, including five core forms: product, method, market, resource, and organization[6]. This theory breaks through the single category of technological invention and emphasizes that the essence of innovation as a driving force for economic development lies in "creative destruction", which realizes value reconstruction by subverting the traditional production system. Enterprise growth is a dynamic and multi-dimensional concept, and its essence is the process of enterprise system upgrading through resource integration and capability building in a complex environment.

Innovation plays a pivotal role in this process, driving growth through various mechanisms:

1. **Technological Innovation:** Technological innovation refers to the process in which enterprises use new technologies, processes, or methods to improve production efficiency, reduce costs, or enhance product quality. Advanced technologies can make enterprises more efficient, energy-saving, and environment-friendly in the production process, reduce production costs, and improve the profitability of enterprises. Technological innovation can also improve the quality and performance of products to meet customers' needs for high-quality products. In addition, the technological transition mechanism includes incremental innovation and breakthrough innovation, which promote enterprise growth from different paths. Incremental innovation works through continuous and small improvements.

2. **Business Model Innovation:** Business model innovation refers to the process in which enterprises create new value propositions and profit models by changing traditional business models. The value network reconstruction theory is a theory closely related to the innovation and development of enterprise business models, which emphasizes that enterprises can realize the transformation of value creation, transmission, and acquisition methods by adjusting and optimizing the relationship between various elements of the value network, thereby enhancing competitiveness and achieving growth.

3. **Ecological Chain Innovation:** Ecological chain innovation refers to the process in which enterprises realize resource sharing, collaborative development, and value co-creation by constructing, expanding, and optimizing their ecological chain systems. Ecological chain innovation helps enhance the synergy and risk resistance of enterprises.

3.2 The Role of Innovation in New Industry and Product Development

The technological economic paradigm theory proposed by Dosi believes that the technological economic paradigm is "a model for solving selected technological and economic problems, a model of technology and organization generally accepted in a specific period, which stipulates the conventional direction of technological progress, innovation opportunities, and the behavior model of enterprises"[7]. When a brand-new technological innovation, such as internet technology, appears, it means the birth of a new technological economic paradigm. The new technological economic paradigm provides enterprises and market participants with brand-new technological and organizational models. Under this new model, the direction of technological progress changes, and a large number of innovation opportunities emerge. Based on the latest technological economic paradigm, enterprises change their original production methods, organizational forms, and market transaction models, thereby giving birth to emerging industries.

4 The Application of Value Chain and Smile Curve Theories in Enterprise Innovation

4.1 The Definition of Value Chain

The value chain theory emphasizes that products or services increase value layer by layer when flowing through design, production, sales, and other links, and the overall value of the system is greater than the simple sum of the values of independent activities. As a strategic analysis tool, the value chain serves to identify cost drivers and sources of differentiation by deconstructing enterprise activities[8]. The smile curve is a concept proposed by Stan Shih, the founder of Acer Group. The smile curve divides an industrial chain into three main links: R&D and design, production and manufacturing, and marketing and service. The smile curve phenomenon refers to the shift of the source of export-added value in the manufacturing industry from the manufacturing link to the pre-production and post-production service links[9].

4.2 Application of Value Chain and Smile Curve Theories in Enterprise Growth

Value Chain Theory. Drawing on the value chain theory, enterprises can achieve development through the following aspects. First, use the cost-benefit analysis framework to quantitatively evaluate the profit contribution of each link, identify core links, and

incline key resources such as funds and talents to them. Second, expand the external value chain, vertically integrate upstream and downstream of the industrial chain to control key resources or channels, and horizontally establish strategic alliances with suppliers and partners to achieve resource sharing, risk sharing, and accurate grasp of consumption trends[10]. Third, with the help of digital transformation, use technologies such as the Internet of Things, big data, and AI to intelligently transform all links of the value chain, extend the value chain links to develop new businesses, and achieve business model innovation. At the same time, tap differentiated opportunity points in all links of the value chain to create a unique customer experience[10].

Application of Smile Curve Theory. According to the smile curve theory, if enterprises want to achieve better development, they need to take multiple measures. In the R&D stage, they should increase R&D and innovation investment, pay attention to launching products with differentiated designs and personalized characteristics, and keep up with market trends and customer needs to maintain competitiveness[11]. In the marketing and service stage, strengthen brand building and marketing strategies, pay attention to improving customer experience, and maximize the added value at the right end of the smile curve. Additionally, enterprises should promote the integration and collaborative development of the industrial chain, integrate upstream and downstream resources, strengthen the communication and collaboration between internal departments, achieve resource sharing, complementary advantages, and seamless docking at both ends of the smile curve. In the development path, based on maintaining the stability of core businesses, enterprises should achieve diversified development and improve market share. In addition, enterprises should strengthen customer research and demand insight, deeply understand customer needs and market trends, develop products and services more in line with market needs, and timely adjust product and marketing strategies to improve market response speed and flexibility[12].

5 Value Chain Analysis of Xiaomi Corporation

5.1 Research and Development (R&D) Link

Technological Innovation Investment: Xiaomi's R&D expenditure increased by 25.9% from RMB 19.1 billion for the year ended December 31, 2023, to RMB 24.1 billion for the year ended December 31, 2024, mainly due to the increase in R&D expenditure related to innovative businesses such as smart electric vehicles. As of December 31, 2024, Xiaomi Group had 43,688 employees, including 21,190 R&D personnel. As of June 30, 2024, Xiaomi Group had obtained more than 40,000 patents worldwide. For example, in the smartphone field, Xiaomi has continuously launched innovative technologies such as high-pixel cameras and fast-charging technologies[10]. These technological innovations have not only improved product performance and user experience but also won advantages for the company in market competition.

User-Driven Innovation: Xiaomi adheres to the R&D concept driven by user requirements and takes user feedback as the core link of product innovation. Using the MIUI system iteration as an example, its functional optimization and version upgrades consistently implement dynamic adjustments based on the demand map generated from

user feedback. This user-participatory R&D strategy achieves a notable enhancement in user satisfaction by establishing a closed-loop system of demand information and product iteration[13].

5.2 Production Link

Combination of Light Assets and Vertical Integration: Xiaomi early adopted a light asset model, cooperating with global well-known ODM manufacturers, such as Huaqin and Longqi in the Chinese mainland, and Foxconn and Hon Hai in India, using their advanced production lines and economies of scale advantages to reduce production costs and reduce capital occupation and risks[14]. With the expansion of scale and strategic adjustment, Xiaomi has gradually shifted to self-building or holding key links to enhance core competitiveness, such as increasing investment in key fields such as core components, establishing its production capacity, and achieving better control of the production process to improve product quality and supply stability[11]. **Supply Chain Management:** Xiaomi Corporation has built an efficient supply chain management system and regards supply chain efficiency as an important part of its core competitive advantages. By establishing a long-term partnership mechanism with suppliers, the enterprise has achieved a dual guarantee of raw material supply stability and quality reliability.

5.3 Marketing Link

1. **Integrated Online and Offline Marketing:** Xiaomi adopts an integrated online and offline marketing model. As of June 30, 2024, the number of offline retail stores of Xiaomi Group in the Chinese mainland exceeded 12,000. Online, Xiaomi sells products through its e-commerce platform and third-party e-commerce platforms. Offline, Xiaomi has opened a large number of Xiaomi Home physical stores to provide users with product experience and after-sales services. This integrated online and offline marketing model can meet the shopping needs of different users and improve the shopping experience of users[11].

2. **Community Marketing and Fan Economy:** With the help of online community marketing, Xiaomi uses social media, fan communities, and other channels to interact with users, create "Rice Flour Culture", and enhance user stickiness and loyalty. In June 2024, the monthly active user number of the Xiaomi Home APP increased by 16.8% year-on-year to 969 million[15]. The number of monthly active users of Xiao Ai Classmate rose by 12.4% year-on-year to 1.317 billion. Establishing distinct communities and implementing partition management based on their specific demands facilitates precise marketing and tailored services, hence offering robust support for product creation and brand enhancement.

6 Analysis of Xiaomi's Innovation from the Perspective of the Smile Curve

Technological Investment and Cooperation Mechanism: Xiaomi maintains a high-intensity resource allocation in the R&D field and realizes multi-subject cooperation and innovation with global frontier technology enterprises and research institutions. It continues to promote technological capability building. For example, in chip research and development, the enterprise is committed to achieving the goal of independent control of core technologies through systematic investment in funds and human resources. This cooperation model not only opens up channels for Xiaomi to obtain cutting-edge technologies and industry experience but also significantly improves its competitive position in the global technology industry ecosystem through technology integration and innovation iteration.

Ecological Chain R&D Investment: Xiaomi has actively built a smart ecosystem and has made extensive R&D investments in the smart hardware field. It has invested in and incubated many ecological chain enterprises, covering multiple fields such as smart home, smart wearables, and smart travel, and has created a series of innovative smart hardware products, such as Xiaomi bracelets, Xiaomi air purifiers, and Ninebot balance cars, enriching Xiaomi's product ecosystem.

Construction of Internet Marketing Ecosystem: Xiaomi pioneered the digital marketing paradigm and built a full-link marketing system covering product promotion and sales transformation by integrating multiple channels such as official network platforms and social media matrices. Its official website is not only a core transaction entrance but also creates an interactive communication scene between the brand and users by embedding functional components such as dynamic information modules and user community ecosystems, significantly improving user participation and brand loyalty[16].

7 Conclusion

The study finds that Xiaomi's ability to stand out in a highly competitive market is primarily driven by its multi-dimensional innovation strategy. continuous increase in R&D investment in technological innovation, construction of a differentiated "hardware + internet + new retail" path in business models, formation of a unique "fan economy" ecosystem in user operations, and continuous breakthroughs in industrial ecological chain collaboration. Although Xiaomi has made innovative breakthroughs in multiple fields, it still faces three challenges. Firstly, its fundamental technologies remain dependent on external supply chains, resulting in inadequate independent control in critical areas such as semiconductors; secondly, the "hardware + internet + new retail" business model has been extensively replicated across the industry, diminishing market differentiation advantages; thirdly, the management complexities of ecological chain enterprises are significant, leading to emerging issues regarding product quality and brand consistency. Xiaomi Corporation must eliminate reliance on core technology,

augment independent control capabilities, intensify business model innovation, reinforce distinct competitive advantages, refine ecological chain management, and guarantee product quality and brand consistency. However, this paper has certain limitations. The data acquisition mainly relies on public information and literature materials. Future research can start from the empirical perspective, further verify the causal relationship between innovation and growth combined with quantitative data, and deeply discuss the innovation path selection of different types of enterprises at different development stages.

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