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CONTACTS

Phone: **+998 50 737 87 88**

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THE ROLE OF COMMERCIAL BANKS IN THE DEVELOPMENT OF INDUSTRIAL ENTERPRISES

Mirzokirov Mirramizjon Mirkhashim ugli

Tashkent State University of Economics.

Faculty of Master's and Evening Education. 2nd-year Master's student, Group I-15.

Email: mirzokirov717@gmail.com

Abstract: The rapid transformation of the global economy necessitates a robust financial infrastructure, wherein commercial banks act as the primary catalyst for industrial development. This article investigates the pivotal role of commercial banking institutions in financing, modernizing, and expanding industrial enterprises, with a specific focus on the evolving macroeconomic landscape of the Republic of Uzbekistan. Through a comprehensive empirical analysis, this study examines the mechanisms of credit allocation, investment dynamics, and the impact of banking sector reforms on industrial output. The research identifies the fundamental challenges industrial enterprises face in accessing long-term capital, including high interest rates and collateral constraints, while highlighting the systemic transition of state-owned banks toward market-oriented operations. The findings reveal a direct positive correlation between long-term commercial lending and the technological upgrading of manufacturing sectors. Ultimately, the paper concludes that while the volume of industrial loans has increased significantly, structural enhancements in risk assessment, syndication, and alternative financing are urgently required. Strategic recommendations are provided to optimize bank-industry integration, ensuring sustainable economic growth and the successful realization of national industrialization objectives.

Key words: Commercial banking, industrial enterprises, economic growth, financial intermediation, capital allocation, modernization, credit portfolio, investment strategy, monetary policy, Uzbekistan, manufacturing sector, long-term lending, risk management, corporate finance, sustainable development, financial innovation, state-owned banks, private capital.

1. INTRODUCTION

The intersection of financial intermediation and industrial expansion constitutes the bedrock of modern economic development. In any transition or emerging economy, the industrial sector acts as the primary engine for job creation, export diversification, and technological advancement. However, the capital-intensive nature of industrial enterprises dictates that they cannot rely solely on retained earnings or government subsidies to finance their operations, modernization, and capacity expansion. Consequently, commercial banks emerge as the most critical institutional players in bridging the gap between surplus economic units (savers) and deficit economic units (industrial firms). By mobilizing domestic and foreign savings, commercial banks channel vital financial resources into productive industrial projects, thereby facilitating the acquisition of advanced machinery, the implementation of innovative technologies, and the scaling of manufacturing processes. The efficiency, depth, and accessibility of the commercial banking sector directly determine the pace at which a nation can industrialize and integrate into the highly competitive global value chains.

In the contemporary economic landscape, the role of commercial banks extends far beyond traditional lending. Modern industrial enterprises require a sophisticated suite of financial products, including syndicated loans, project finance, trade finance, foreign exchange hedging, and strategic advisory services. Commercial banks meticulously assess the viability of industrial projects, acting as an essential filter that allocates capital to the most efficient and promising enterprises while mitigating systemic risks. Furthermore, banks exert corporate governance discipline over borrowing firms, monitoring their financial health and operational efficiency to ensure loan repayment. This monitoring function forces industrial enterprises to adopt more transparent accounting practices, optimize their resource utilization, and maintain high standards of corporate governance. When commercial banks operate within a sound regulatory environment, their credit allocation decisions fundamentally shape the industrial geography of a country, dictating which sectors will flourish and which will stagnate.

The Republic of Uzbekistan presents a uniquely compelling case study for observing the dynamic interaction between commercial banking reforms and industrial development. Historically, the Uzbek banking system was characterized by heavy state intervention, directed lending, and a reliance on government-guaranteed funds to finance state-owned industrial monopolies. This model, while ensuring macroeconomic stability during the initial post-independence period, ultimately resulted in market distortions, high non-performing loan (NPL)

ratios, and a severe lack of credit availability for private and medium-sized industrial enterprises. Recognizing these structural bottlenecks, the government of Uzbekistan embarked on a comprehensive and aggressive reform agenda aimed at liberalizing the economy, privatizing state assets, and transforming the banking sector into a competitive, market-driven ecosystem.

Central to this transformative agenda is the absolute necessity of aligning banking operations with the strategic needs of the national industry. The political leadership of Uzbekistan has repeatedly emphasized that banks must cease being mere cash-handling appendages of the state and instead evolve into proactive partners for industrial entrepreneurs. This strategic pivot was explicitly codified in national policy. As stated in the Decree of the President of the Republic of Uzbekistan Shavkat Mirziyoyev (No. PF-5992) «On the Strategy for reforming the banking system of the Republic of Uzbekistan for 2020-2025»: “The banking system must undergo deep transformation, increasing the share of the private sector in banking assets, improving the quality of corporate management, and decisively directing credit resources primarily to the modernization of industrial enterprises, the stimulation of high-value manufacturing, and the comprehensive support of private entrepreneurship.” This definitive mandate underscores the critical importance the state places on commercial banks as the primary vehicles for industrial modernization.

The implementation of this presidential directive requires a paradigm shift in how commercial banks approach the industrial sector. Banks are now tasked with developing sophisticated credit scoring models tailored to the specific cash flow cycles of various industrial sub-sectors, such as textiles, metallurgy, automotive, and chemicals. Moreover, the transition requires an aggressive reduction in bureaucratic hurdles that have historically stifled industrial credit growth. Currently, as industrial enterprises in Uzbekistan seek to move up the value chain—transitioning from the export of raw materials (like raw cotton and unprocessed minerals) to the export of finished, high-value goods—their demand for long-term, low-interest capital has grown exponentially. Exploring how commercial banks are meeting this demand, the obstacles they face, and the overall macroeconomic impact of their lending activities forms the central objective of this research. By systematically analyzing the evolving role of commercial banks in Uzbekistan’s industrialization, this article aims to provide actionable insights for policymakers, banking executives, and industrial stakeholders striving to achieve sustainable economic prosperity.

2. LITERATURE REVIEW

The theoretical framework surrounding the relationship between financial development and economic growth has been extensively debated and refined by global scholars over the past century. At the core of this literature is the premise that commercial banks, through efficient financial intermediation, lower transaction costs, resolve information asymmetries, and facilitate the optimal allocation of capital to productive industrial sectors.

From a foreign academic perspective, the foundational theory was articulated by Schumpeter (1911) [1], who argued that financial intermediaries are essential for technological innovation and economic development because they identify and fund the most promising entrepreneurs and industrial ventures. This was later expanded by Levine (1997) [2], whose seminal work demonstrated that countries with deeper and more developed banking systems experience faster rates of industrial growth, capital accumulation, and productivity improvements. Merton (1995) [3] emphasized the functional perspective of banking, highlighting that commercial banks are uniquely positioned to manage risk, provide liquidity, and clear and settle payments for large-scale industrial manufacturing. Stiglitz (1981) [4] contributed significantly to this discourse by analyzing credit rationing, explaining how information asymmetries between banks and industrial borrowers often lead to market failures, requiring careful regulatory oversight and innovative credit mechanisms. Furthermore, Rajan and Zingales (1998) [5] provided empirical evidence showing that industrial sectors which are naturally more dependent on external finance grow disproportionately faster in countries with well-developed commercial banking sectors. Lastly, Beck et al. (2000) [6] established that financial intermediation by commercial banks actively reduces poverty and stimulates industrialization by allowing firms to overcome external financing constraints and scale their operations beyond the limits of their internal cash flows.

Within the specific context of the Republic of Uzbekistan, domestic scholars have focused heavily on the unique transitional dynamics of the national economy, the legacy of state-directed lending, and the recent structural reforms in the banking sector. Abdullaev (2018) [7] analyzed the historical evolution of the Uzbek banking system, noting that while state-owned banks provided necessary capital for mega-projects in the early years of independence, their bureaucratic structures eventually hindered the agility required by the modern private industrial sector. Vahobov (2019) [8] examined the critical issue of long-term investment credit, arguing that the lack of long-term liquidity in Uzbek commercial banks acts as a primary barrier to the deep technological modernization of heavy industries such as metallurgy and chemical manufacturing. Toymurodov

(2020) [9] investigated the transition from state-directed lending to market-based credit allocation, highlighting the difficulties commercial banks face in accurately assessing the creditworthiness of newly established private industrial enterprises due to a lack of historical financial data.

Furthering this localized research, Alimardonov (2021) [10] explored the impact of interest rate liberalization on industrial borrowing in Uzbekistan. His research concluded that while high nominal interest rates reflect inflation and risk premiums, they significantly compress the profit margins of industrial firms, thereby discouraging capital-intensive investments. Rashidov (2017) [11] focused on the spatial distribution of bank credit, revealing a heavy concentration of industrial lending in the capital region (Tashkent), which necessitates targeted regional banking policies to stimulate industrial growth in peripheral provinces. Finally, Karimov (2022) [12] synthesized recent presidential decrees and banking sector strategies, proposing that the digitalization of commercial banking services and the introduction of green finance are non-negotiable prerequisites for integrating Uzbekistan's industrial output into global, environmentally-conscious supply chains. Together, both international theories and localized Uzbek empirical studies demonstrate that while the fundamental mechanics of banking remain universal, the optimal policy configuration depends heavily on the institutional maturity and transitional phase of the specific economy.

3. RESEARCH METHODOLOGY

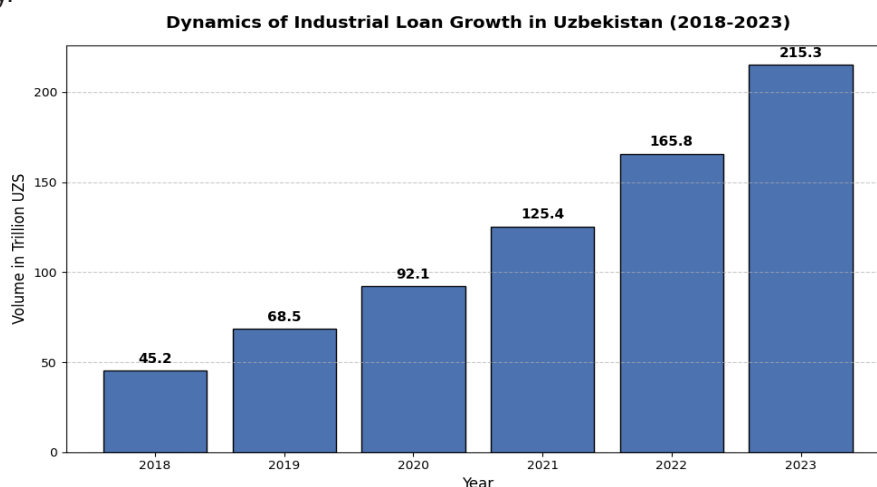
To comprehensively evaluate the role of commercial banks in developing industrial enterprises in Uzbekistan, this study employs a mixed-methods research design, integrating both quantitative and qualitative analytical frameworks. The quantitative dimension relies on secondary time-series data covering a six-year period from 2018 to 2024. The primary data sources include official statistical bulletins and annual reports from the Central Bank of the Republic of Uzbekistan (CBU), the State Statistics Agency under the President of the Republic of Uzbekistan, and the Ministry of Economy and Finance.

The quantitative methodology utilizes descriptive statistics and comparative financial analysis to track the volume, structure, and sectoral allocation of commercial bank loans directed toward industrial enterprises. Key metrics analyzed include the proportion of long-term versus short-term loans, the distribution of credit between state-owned and privately-owned commercial banks, and the corresponding Non-Performing Loan (NPL) ratios.

Concurrently, the qualitative dimension of the methodology involves an extensive review of recent legislative and regulatory documents, including Presidential Decrees and Central Bank monetary policy guidelines, to contextualize the statistical findings within the ongoing macroeconomic reforms. By triangulating quantitative financial data with qualitative policy analysis, this methodology ensures a rigorous, objective, and holistic assessment of how commercial banks are fulfilling their mandate to finance industrial modernization, while also identifying structural bottlenecks in the domestic financial architecture.

4. ANALYSIS AND RESULTS

The transition of Uzbekistan's economy has placed an enormous responsibility on the commercial banking sector to finance the industrialization agenda. To understand the depth and efficacy of this financial support, it is necessary to analyze the exact statistical contours of bank lending. Over the period from 2018 to 2024, the banking sector has undergone massive capitalization, coupled with an aggressive push to channel funds into the real economy.



Graph 1: Dynamics of Industrial Loan Growth in Uzbekistan (2018-2023)

The graph above illustrates a dramatic upward trajectory in the nominal volume of loans directed toward industrial enterprises. This aggressive expansion in credit is a direct result of government policies aimed at import substitution and export-oriented industrialization. However, volume alone does not dictate efficiency. The underlying structure of these loans—their maturity, source, and risk profile—provides a deeper understanding of the banking sector's health and its true impact on industry.

Table 1: Volume and Structure of Commercial Bank Loans to Industrial Enterprises (2018-2024)

Year	Total Loans (Trillion UZS)	Short-Term Loans (%)	Long-Term Loans (%)	State Banks Share (%)	Private Banks Share (%)	NPL Ratio (%)
2018	45.2	42.5	57.5	88.2	11.8	1.5
2019	68.5	40.1	59.9	85.4	14.6	1.8
2020	92.1	38.5	61.5	82.1	17.9	2.5
2021	125.4	35.2	64.8	78.5	21.5	4.2
2022	165.8	33.0	67.0	74.0	26.0	4.8
2023	215.3	31.5	68.5	69.5	30.5	5.1
2024*	240.1	30.0	70.0	65.0	35.0	4.5
<i>*Projected figures based on Q1-Q2 2024 data.</i>						

Analysis of Table 1:

Table 1 demonstrates several critical structural shifts within the Uzbek banking sector. First, the ratio of long-term loans has steadily increased from 57.5% in 2018 to an estimated 70.0% in 2024. This is a highly positive indicator for the industrial sector, as modernization, procurement of heavy machinery, and factory construction require long-term capital horizons. Short-term loans, typically used for working capital, are declining in relative share, suggesting a maturation of industrial project financing. Second, the monopoly of state-owned banks is visibly diminishing. The share of private banks in industrial lending has tripled, growing from 11.8% to 35.0%. This aligns perfectly with the state strategy to privatize the banking sector and increase market competition. However, this aggressive lending expansion has come at a cost to asset quality; the NPL ratio has risen from a very low 1.5% in 2018 to a peak of 5.1% in 2023, reflecting the inherent risks of rapid credit expansion and the financial vulnerabilities of some newly established industrial ventures during global macroeconomic shocks.

Table 2: Impact of Bank Lending on Industrial Output by Key Regions (2023)

Region	Active Ind. Enterprises	Total Credit Allocated (Tril. UZS)	Industrial Output Value (Tril. UZS)	Year-on-Year Growth (%)	New Jobs Created	ROI Estimate (%)
Tashkent City	12,450	85.4	145.2	+ 11.5	25,400	14.2
Tashkent Reg.	8,210	42.1	95.8	+ 9.8	18,200	12.8
Fergana	6,540	18.5	48.3	+ 8.5	14,500	11.5
Navoi	2,100	25.6	82.5	+ 12.1	8,900	16.4
Samarkand	5,890	16.2	41.0	+ 7.9	12,100	10.5
Andijan	7,120	14.8	38.4	+ 8.2	15,300	11.0
Khorezm	3,450	8.7	22.1	+ 6.5	6,800	9.2

Table 2 highlights the spatial disparity of bank lending and its direct translation into industrial output and socio-economic benefits. Tashkent City and the Tashkent Region dominate the landscape, absorbing over half of all industrial credit. Consequently, they display the highest industrial output and job creation numbers. However, the Navoi region presents a fascinating anomaly: despite having fewer enterprises (2,100), it receives a massive volume of credit (25.6 Trillion UZS) and generates an enormous output (82.5 Trillion UZS) with the highest estimated ROI (16.4%). This is primarily driven by massive, capital-intensive mining, metallurgical, and chemical mega-projects located in the Navoi Free Economic Zone, which heavily rely on syndicated loans from large commercial banks. Conversely, regions like Khorezm and Samarkand show lower credit absorption and lower ROI, indicating that banks perceive higher risks or lack bankable, large-scale industrial projects in these peripheral areas. This spatial concentration suggests a need for commercial banks to diversify their regional portfolios to ensure balanced national industrial development.

Table 3: Sectoral Distribution of Industrial Loans in Uzbekistan (2020-2024)

Industrial Sector	2020 (Tril. UZS)	2021 (Tril. UZS)	2022 (Tril. UZS)	2023 (Tril. UZS)	2024* (Tril. UZS)	Total Share (2024) %
Textile & Apparel	15.4	22.1	28.5	35.6	39.2	16.3
Mining & Metallurgy	28.5	36.4	48.2	62.1	68.5	28.5
Food Processing	8.2	12.5	16.8	21.0	24.5	10.2
Automotive & Mach.	18.1	24.8	32.5	42.4	45.6	19.0
Chemical Industry	12.5	17.2	24.1	31.5	36.8	15.3
Construction Mat.	6.5	8.5	11.2	15.8	18.2	7.6
Pharma & Others	2.9	3.9	4.5	6.9	7.3	3.1

The sectoral distribution data in Table 3 reveals the strategic priorities of both the state and commercial banks. The Mining and Metallurgy sector remains the undisputed heavyweight, consuming 28.5% of all industrial credit by 2024. This reflects the immense capital requirements for extracting and processing natural resources, which remain Uzbekistan's primary export revenue generators. However, the most notable dynamic is the rapid growth in the Textile & Apparel and Automotive & Machinery sectors. Commercial banks are actively financing the transition from exporting raw cotton to manufacturing finished textile garments, a shift that requires extensive funding for new spinning, weaving, and dyeing equipment. Similarly, the automotive sector has seen its credit allocation more than double since 2020. Food processing and construction materials, while holding smaller shares, have shown consistent, steady growth, driven by domestic population expansion and a nationwide housing boom. The data clearly proves that commercial banks are functionally directing the structural diversification of the Uzbek economy away from pure resource extraction toward complex manufacturing.

5. CONCLUSION AND RECOMMENDATIONS

The exhaustive analysis conducted in this study unequivocally confirms that commercial banks serve as the vital circulatory system for the development of industrial enterprises in the Republic of Uzbekistan. Over the past several years, the banking sector has successfully mobilized and injected unprecedented volumes of capital into the real economy, facilitating a historic transition from a raw-material exporter to an emerging regional manufacturing hub. The empirical data highlights highly positive trends: the maturity profile of loans is lengthening, allowing for genuine industrial modernization; the private banking sector is gaining a robust foothold, driving competition and efficiency; and credit is being strategically allocated to high-value-added sectors such as textiles, automotive manufacturing, and deep chemical processing.

However, alongside these achievements, the research reveals profound structural vulnerabilities that must be urgently addressed. The rising Non-Performing Loan (NPL) ratio indicates systemic weaknesses in the credit scoring and risk management frameworks of many commercial banks. Furthermore, the geographic concentration of industrial credit in the Tashkent and Navoi regions exacerbates regional economic disparities, leaving promising enterprises in peripheral provinces starved of necessary capital. Most critically, domestic industrial enterprises continue to struggle with prohibitively high real interest rates and stringent collateral requirements, which heavily compress their profit margins and deter vital long-term investments in innovation and green technologies.

To resolve these bottlenecks and optimize the role of commercial banks in industrial development, the following strategic recommendations are proposed:

1. Implementation of Interest Rate Subsidies for High-Tech Manufacturing: To mitigate the burden of high commercial borrowing costs, the government, in coordination with the Central Bank, should expand targeted interest rate subsidy programs. These subsidies should not be universal but strictly limited to industrial enterprises importing advanced, energy-efficient machinery or those producing highly complex export-oriented goods. This will incentivize technological upgrading without distorting the broader monetary policy.

2. Accelerated Digitalization and Alternative Credit Scoring:

Commercial banks must aggressively transition away from purely collateral-based lending (which heavily disadvantages new industrial SMEs) toward cash-flow-based lending. By utilizing big data, AI-driven analytics, and digital integrations with state tax and customs databases, banks can accurately assess the real-time financial health and viability of industrial enterprises, thereby lowering risk premiums and expanding credit access.

3. Development of Syndicated Lending and Capital Markets:

No single domestic bank can safely carry the massive risk associated with modern, multi-billion-dollar industrial mega-projects. The Central Bank must actively facilitate the creation of a domestic syndicated loan market, allowing multiple local and foreign banks to pool their capital and share the risk of financing large-scale metallurgical, chemical, and energy projects. Concurrently, banks should guide mature industrial enterprises toward issuing corporate bonds, reducing their over-reliance on traditional bank loans.

4. Expansion of “Green” Industrial Financing:

As global supply chains increasingly demand environmentally sustainable production, commercial banks in Uzbekistan must pioneer «Green Finance» portfolios. Banks should offer preferential loan terms to industrial enterprises that invest in renewable energy sources, waste reduction, and water recycling technologies, ensuring that Uzbekistan’s industrial growth is ecologically sustainable and globally competitive.

5. Decentralization of Credit Authority to Regional Branches:

To combat regional economic disparity, commercial banks must empower their regional branches with greater autonomous lending authority and localized risk assessment tools. Tailoring banking products to the specific industrial profiles of regions like Khorezm, Surkhandarya, and the Fergana Valley will stimulate inclusive, nationwide industrialization.

By executing these strategic reforms, the commercial banking sector of Uzbekistan will transcend its traditional boundaries, evolving into a sophisticated, resilient, and proactive partner capable of driving the national industry into a new era of global prosperity and technological advancement.

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