DOI: 10.26565/2786-4995-2025-2-10
UDC 332.1:330.322:69

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Financial mechanisms for attracting investments in development projects as a factor of urban growth

Abstract. The article examines financial mechanisms for attracting investments into development projects as a key factor in the growth of modern cities. Investment in urban infrastructure and real estate is a crucial instrument for stimulating economic growth, enhancing the quality of life, and ensuring sustainable development of urbanized areas. The study analyzes the main sources of financing for development projects, including traditional methods such as bank lending, government subsidies, and bond issuance, as well as modern financial instruments such as crowdfunding, venture capital, and digital financing platforms. The advantages and risks of each capital-raising method are identified, along with their impact on the effectiveness of urban development project implementation. Special attention is given to the role of public-private partnerships in financing large-scale development initiatives, enabling the attraction of private capital for the realization of infrastructure and socially significant projects. The paper explores the mechanisms of interaction between government institutions, financial organizations, and development companies aimed at minimizing risks and increasing the efficiency of investment resource management. The influence of macroeconomic and regulatory factors on the investment dynamics in the development sector is investigated, including tax legislation, monetary policy, availability of financial resources, and the overall investment climate. The article also presents international experience in applying financial mechanisms in development projects, covering urban infrastructure financing strategies in Europe, the United States, and Asia. The prospects for introducing innovative financial technologies such as asset tokenization, green bonds, and digital investment platforms are analyzed. Strategic directions for improving investment attraction mechanisms in urban construction are proposed to enhance the investment attractiveness of cities and ensure the balanced development of urban space. Recommendations are developed for public authorities, financial institutions, and development companies regarding the optimization of financing processes and the adoption of modern approaches in investment attraction for urban development.

Keywords: *investment, development, financial mechanisms, urban planning, public-private partnership, lending, stock market, urbanism.*

JEL Classification: G24, R33, O18, H54

Formulas: 0, **Figures:** 0, **Tables:** 2, **References:** 15

For citation: Zhytar M. Financial mechanisms for attracting investments in development projects as a factor of urban growth. Financial and Credit Systems: Prospects for Development. №2(17) 2025. P. 123-131. DOI: https://doi.org/10.26565/2786-4995-2025-2-10

Introduction. The contemporary development of cities requires substantial investment resources, as urbanization processes are accompanied by growing demand for residential, commercial, and infrastructure real estate. Development projects play a key role in shaping the spatial structure of cities, enhancing their competitiveness, fostering innovation, and boosting economic attractiveness. At the same time, financing such projects is a complex process that demands the use of effective financial mechanisms for attracting investment. Current financial market trends, including the emergence of new forms of capital investment, improvements in credit instruments, and the implementation of public-private partnerships, are creating new opportunities for urban development financing and the implementation of large-scale development initiatives.

Financial mechanisms for attracting investment into development projects encompass a wide range of instruments, such as bank lending, venture financing, bond issuance, real estate investment funds, and alternative financial models including crowdfunding and digital assets. Effective utilization of these mechanisms enables the optimization of capital costs, risk minimization, and enhancement of financial stability for projects. Furthermore, strategic planning of investment flows and the application of modern financial management methods contribute not only to the successful implementation of development initiatives but also to the sustainable growth of urban economies, increased employment, and rising tax revenues.

Research into the financial mechanisms for attracting investment into development projects has become particularly relevant in light of global macroeconomic challenges, including financial instability, regulatory shifts, and intensified competition in the real estate market. In this context, it is important to identify effective financial strategies that take into account the institutional features of national economies, legal aspects of capital attraction, and innovative approaches to urban development financing. Addressing these factors will contribute to the formation of a comprehensive financing system for development projects, ensuring the sustainable growth of urbanized areas and enhancing their investment appeal.

Literature Review. Financial mechanisms for attracting investment in development projects have been the focus of numerous studies by both domestic and international scholars. In Ukraine, V. Andrieieva, in her work "Financing Development Projects as a Mechanism for the Functioning of the Real Estate Market," analyzes real estate market trends and the organizational features of development activities [1]. The author substantiates financing schemes for development projects, emphasizing the importance of establishing project companies to properly reflect cash flows and minimize risks. She also highlights the role of government regulation in the investment process and examines tax incentives as a factor in attracting capital.

H. Chepeliuk, in her research "Application of Financial and Credit Mechanisms in the Development of Industrial Parks in Ukraine," systematizes financial tools used to fund industrial parks, with a focus on debt instruments that reduce the cost of financing and help diversify the investor base [2]. The author also explores the specifics of project financing and how it differs from other forms of business financing, such as bank loans and venture capital. Her study shows that the effective use of credit mechanisms and government guarantees can significantly mitigate financial risks in development project implementation.

Among other Ukrainian researchers exploring this topic, O. Haltsova, O. Selezniova, and N. Melnyk, in their work "The Role of Development Companies in the Real Estate Market of Ukraine," emphasize the multi-channel nature of financing for development projects [3]. The authors explore the possibilities of syndicated loans, corporate bonds, and crowdfunding tools for attracting funds into the real estate sector. They also stress the importance of applying a comprehensive approach to managing investment risks, including construction insurance and financial hedging instruments, for the sustainable development of development projects.

International studies also focus on financial mechanisms for investment attraction in development projects. For instance, an article published in The Times discusses the successful case of Helios Towers, a company that attracted private capital to develop telecommunications infrastructure in Africa. This case demonstrates the effectiveness of private financial initiatives in implementing large-scale infrastructure projects. Furthermore, global experience shows widespread use of public-private partnership (PPP) mechanisms in financing development projects, allowing for reduced strain on public budgets and the integration of innovative approaches in urban infrastructure implementation [4].

Research by Li Zhen, Baijun Wu, and Maogang Tang titled “Investment and Financing Mechanisms for Urban Public Goods” analyzes financing practices for large urban projects in the USA and Europe [5]. The authors highlight the role of real estate investment trusts (REITs) and specialized investment funds in the development of real estate projects, noting that in developed countries, institutional capital plays a critical role. They argue that a significant portion of financing for modern development projects comes from private venture capital aimed at long-term profitability, as well as from debt instruments such as municipal bonds.

Thus, the analysis of scientific literature by both Ukrainian and international scholars illustrates the multifaceted nature of financial mechanisms for attracting investment into development projects. An effective financing strategy entails the diversification of capital sources, the application of modern risk management tools, and active collaboration between public and private entities. Incorporating international experience and adapting global financial mechanisms to the Ukrainian context is a vital task for ensuring the stable development of urban areas and enhancing their investment attractiveness.

Purpose, Objectives and Research Methods. The purpose of this study is to identify and analyze financial mechanisms for attracting investment in development projects as a key factor in urban development. Under current conditions of urbanization and globalization, development projects play a crucial role in shaping the economic and social infrastructure of cities. The effective application of financial instruments not only facilitates the mobilization of capital for the implementation of large-scale infrastructure initiatives but also enhances the economic resilience of regions and improves their investment appeal.

To achieve this aim, the study sets out the following objectives: systematization of the main financial mechanisms for attracting investment into development projects; analysis of the impact of investment processes on urban infrastructure development and regional economic activity; evaluation of the efficiency of various sources of financing, including bank loans, government subsidies, venture capital, public-private partnership mechanisms, and bond issuance; examination of international experience in financing development projects and formulation of recommendations for its adaptation to the Ukrainian context [6–7].

The research employs a comprehensive approach based on general scientific and specialized methods. Specifically, the methods of systems analysis and generalization are used for the classification of financial instruments; economic and statistical analysis is applied to evaluate investment efficiency; and comparative analysis is conducted to examine international practices in the development sphere. Furthermore, SWOT analysis is employed to assess the strengths and weaknesses, opportunities, and threats of financial mechanisms, and forecasting techniques are utilized to identify prospects for development projects within the context of modern economic trends.

Research Results. Financial mechanisms for attracting investment into development projects are a key driver of urban growth, as they ensure stable financing for urban initiatives, promote economic development, and improve the quality of life for city residents. In light of current challenges associated with economic instability and the consequences of military actions, research into financial mechanisms is gaining particular relevance. Investment activity in the development sector depends on a range of factors, including access to financial resources, the effectiveness of regulatory frameworks, macroeconomic stability, and the overall investment climate of a country.

The development of real estate projects under current conditions is made possible through the use of various financial instruments, such as state support programs, bank loans, foreign direct investment, capital market fundraising, and public-private partnership mechanisms. For instance, in October 2022, Ukraine launched the affordable mortgage program "YeOselya," which initially targeted military personnel, healthcare workers, educators, and law enforcement officers. By July 2023, the program had expanded to include internally displaced persons and other citizens, significantly stimulating demand for residential property. Such initiatives play an essential role in improving housing accessibility and encouraging development activities.

At the macroeconomic level, several factors determine the effectiveness of development project financing, including inflation, currency exchange fluctuations, interest rate levels, political stability, and investor confidence. The war and economic uncertainty have significantly impacted Ukraine's real estate market, as seen in rising construction material prices, increased loan costs, and a general decline in investment volumes. Nevertheless, over 404,000 real estate transactions were registered in 2023—nearly double the 2022 figure, although still below the 2021 level.

An analysis of international experience demonstrates that effective functioning of investment mechanisms in development projects relies on active state programs to incentivize investors, flexible taxation, creation of special economic zones, and the use of insurance tools that minimize risks for stakeholders. For example, municipal bond mechanisms are widely used in the United States and EU countries to attract additional funds for infrastructure and housing projects. In Ukraine, such instruments remain underutilized, suggesting a potential direction for future investment policy reform.

A comprehensive analysis of financial instruments should include an assessment of their strengths and weaknesses, opportunities, and threats. Strengths include the availability of state support programs, the potential for international funding, and the development of public-private partnership mechanisms. Weaknesses comprise high interest rates, bureaucratic hurdles, and insufficient investor protection. Opportunities lie in the expansion of international cooperation, use of advanced construction technologies, and development of digital financing tools. However, major threats include economic instability, political risks, and the potential escalation of military conflict (Table 1).

Table 1. SWOT Analysis of Financial Mechanisms for Attracting Investment in Development Projects

Strengths	**Weaknesses**
Availability of government support programs	High interest rates
Potential for attracting international funding	Bureaucratic barriers
Development of public-private partnership mechanisms	Insufficient investor protection
Opportunities	**Threats**
Expansion of international cooperation	Economic instability
Adoption of advanced construction technologies	Political risks
Development of digital financing mechanisms	Potential escalation of military conflict

Compiled by the author based on [8–10].

Economic and statistical analysis indicates significant shifts in the structure of development investments in Ukraine in recent years. In 2023, total revenues of enterprises in the real estate sector increased to UAH 169 billion, significantly exceeding the previous year's figures. At the same time, new residential construction covered 7.38 million m², indicating a gradual recovery of the sector. However, housing prices continue to show a steady upward trend, rising by an average of 12.8% in 2023, driven by both inflationary pressures and increased demand for new real estate.

Discussion. The results of the study confirm the significant impact of financial mechanisms on the development of real estate projects, correlating with changes in the macroeconomic environment, financial risks, and regulatory policies. Analysis of international experience shows that successful investment attraction models rely on effective government support programs aimed at minimizing risks for investors.

One of the key risks for developers is the high cost of borrowing, which significantly increases construction costs and slows down project implementation. In economically stable countries, this factor is mitigated through access to affordable long-term loans with low interest rates. In Ukraine, however, high inflation and financial system volatility present additional obstacles to attracting credit resources.

Another major risk involves bureaucratic barriers, including complex permitting processes, lack of transparent project approval mechanisms, and frequent legislative changes. This creates uncertainty for investors and can significantly delay the implementation of development projects [11–12].

Investment attraction in the development sector requires effective financial mechanisms, with government incentive programs being particularly important. Public funding or subsidies can significantly reduce the financial burden on private investors and encourage new housing construction.

Special attention should be paid to mechanisms for attracting international financing. Ukraine can adopt foreign practices involving investment guarantee mechanisms, such as the creation of national investment insurance funds that reduce capital risks. The development of new financial instruments plays a key role in stimulating development activities. One promising instrument is the issuance of municipal bonds, which can attract funding directly for urban infrastructure and real estate development.

The introduction of financing mechanisms through Real Estate Investment Trusts (REITs) allows for the diversification of investment sources and the involvement of private investors in development projects. This practice is widely used in the U.S. and EU countries, demonstrating high efficiency in reducing financial risks. Lowering the tax burden is also a critical factor in attracting investment. The government can introduce tax incentives for developers and investors involved in strategically important projects, thereby boosting investment activity.

Ensuring investment environment stability requires not only sound macroeconomic policies but also reliable legal protection of investor rights. Improving the legislative framework to minimize risks of corporate raiding and legal uncertainty is essential for the development of the real estate sector.

A crucial factor in development progress is the adoption of digital technologies, which enhance financial transparency. The use of blockchain technologies in real estate financing increases investor confidence and reduces fraud risks. Innovative financing mechanisms, such as real estate crowdfunding, open new opportunities for attracting private investors to real estate projects [13–14]. Such platforms allow for the accumulation of substantial capital from a large number of contributors, thereby reducing financial risks. The development of public-private partnerships (PPPs) is another effective financing mechanism that ensures the engagement of both public and private capital in strategically important projects. This facilitates the implementation of large-scale infrastructure initiatives and urban real estate development (Table 2).

Thus, financial mechanisms for attracting investment in development projects play a key role in urban growth. An effective combination of government incentives, tax benefits, new financial instruments, and international experience can enhance the investment appeal of the sector and contribute to the sustainable economic development of regions.

Conclusions. Financial mechanisms for attracting investment in development projects are fundamental to forming sustainable urban infrastructure. The study confirmed that an effective synergy of government support programs, innovative financial tools, and international practices increases the investment attractiveness of the sector. This fosters the creation of a comfortable urban environment, improves housing availability, and expands the economic potential of regions.

The analysis of international practices shows that countries with advanced development markets actively utilize tax incentives, municipal bonds, and REIT funds. Ukraine holds significant potential for adapting these instruments to boost construction and attract long-term investors. In particular, the introduction of government-guaranteed investment programs can help reduce risks for foreign capital.

One of the major challenges in the development sector is overcoming bureaucratic obstacles that hinder project implementation. The introduction of digital platforms for obtaining permits and managing financial flows can enhance transparency and reduce corruption risks, positively impacting the speed and efficiency of development initiatives.

Table 2. Key Directions of Financial Mechanisms in Development

Financial Mechanism	**Characteristics**	**Expected Effect**
Municipal bonds	Attracting funds for infrastructure projects	Reducing fiscal burden
REIT funds	Diversification of funding sources	Enhancing market liquidity
Tax incentives	Reducing tax burden for developers	Increasing investment activity
Blockchain in financing	Transparency of financial flows and investor protection	Reducing fraud risks
Public-private partnerships	Joint financing of projects by the state and businesses	Implementation of large-scale initiatives
Crowdfunding in development	Attracting private investment via digital platforms	Expanding access to financing

Proposed by the author based on [13–15].

Future research in the field of development financing should focus on the creation of adaptive financial models that account for macroeconomic risks and real estate market dynamics. Of particular importance is the study of financing mechanisms for sustainable urban development, including investments in green construction, energy-efficient technologies, and smart infrastructure projects.

Another essential area for further research is evaluating the impact of institutional changes on the efficiency of financial mechanisms in development. Legislative stability, protection of investor rights, and the establishment of a favorable tax environment are necessary prerequisites for increasing trust in the real estate market and boosting capital investment volumes.

Additionally, attention should be given to developing partnerships between the public and private sectors in financing strategically important urban projects. Public-private partnerships enable the mobilization of substantial resources for the development of transport, social, and housing infrastructure, which is crucial for creating a comfortable urban space.

Therefore, enhancing financial mechanisms for attracting investment in development projects is a key task in promoting sustainable urban growth. The use of modern financial instruments, optimization of the regulatory environment, and implementation of digital technologies can ensure stable economic growth and increase the competitiveness of the development industry.

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The article was received by the editors 24.03.2025
The article is recommended for printing 03.05.2025

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Фінансові механізми залучення інвестицій у девелоперські проєкти як фактор розвитку міст

Анотація. У статті розглянуто фінансові механізми залучення інвестицій у девелоперські проєкти як ключовий фактор розвитку сучасних міст. Інвестування у міську інфраструктуру та нерухомість є важливим інструментом стимулювання економічного зростання, підвищення якості життя населення та забезпечення сталого розвитку урбанізованих територій. Проаналізовано основні джерела фінансування девелоперських проєктів, включаючи традиційні методи, такі як банківське кредитування, державні субсидії, випуск облігацій, а також сучасні фінансові інструменти, зокрема краудфандинг, венчурний капітал і цифрові платформи фінансування. Визначено переваги та ризики використання кожного з методів залучення капіталу, а також їхній вплив на ефективність реалізації проєктів містобудування. Окрему увагу приділено аналізу ролі державно-приватного партнерства у фінансуванні великих девелоперських ініціатив, що дозволяє залучати приватний капітал для реалізації інфраструктурних і соціально значущих об'єктів. Розглянуто механізми взаємодії між державними установами, фінансовими організаціями та девелоперськими компаніями, спрямовані на мінімізацію ризиків і підвищення ефективності управління інвестиційними ресурсами. Досліджено вплив макроекономічних та регуляторних факторів на динаміку інвестицій у сферу девелопменту, включаючи податкове законодавство, грошово-кредитну політику, доступність фінансових ресурсів і рівень інвестиційного клімату. Наведено міжнародний досвід використання фінансових механізмів у девелоперських проєктах, включаючи стратегії фінансування міської інфраструктури у країнах Європи, США та Азії. Проаналізовано перспективи запровадження інноваційних фінансових технологій, таких як токенізація активів, зелені облігації та цифрові платформи інвестування. Запропоновано стратегічні напрями удосконалення механізмів залучення інвестицій у міське будівництво, що сприятиме підвищенню інвестиційної привабливості міст та забезпеченню збалансованого розвитку міського простору. Розроблено рекомендації для органів державної влади, фінансових інституцій та девелоперських компаній щодо оптимізації процесів фінансування та використання сучасних підходів у залученні інвестицій для урбаністичного розвитку.

Ключові слова: *інвестиції, девелопмент, фінансові механізми, містобудування, державно-приватне партнерство, кредитування, фондовий ринок, урбаністика.*

JEL Classification: G24, R33, O18, H54

Формули: 0, рис. 0, табл 2., бібл.: 15

Для цитування: Zhytar M. Financial mechanisms for attracting investments in development projects as a factor of urban growth. Фінансово-кредитні системи: перспективи розвитку. №2(17) 2025. С. 123-131. DOI: https://doi.org/10.26565/2786-4995-2025-2-10

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Стаття надійшла до редакції 24.03.2025
Статтю рекомендовано до друку 03.05.2025