Volume- 43 September- 2025

Website: www.ejird.journalspark.org ISSN (E): 2720-5746

IMPACT OF CROWDFUNDING PLATFORMS ON INNOVATIVE DEVELOPMENT

Aminov Farrux Farxadovich Independent Researcher Tashkent State University of Economics E-mail: aminovfarrukh0707@gmail.com

Abstract

This work analyzes the impact, opportunities, and practical mechanisms of crowdfunding platforms on innovative development. Compared to traditional financing instruments, crowdfunding is characterized by openness, a large number of participants, and the ability to quickly test ideas. The study examines the experience of global platforms such as Kickstarter and Indiegogo, as well as the possibilities of implementing this system in Uzbekistan. It is also substantiated that crowdfunding is a convenient financial alternative for startups, young innovators, and social projects. Recommendations on the topic emphasize the need to form a national crowdfunding infrastructure in Uzbekistan, create a legal framework, and improve financial literacy.

Keywords: Crowdfunding, innovative development, startup, financing, collective investment, digital platforms, social entrepreneurship, investor, technological projects, financial literacy, national infrastructure.

Introduction

In the modern economy, in addition to traditional bank loans and venture capital, financing of innovative projects requires new mechanisms. Crowdfunding is a way to attract relatively small sums from a large number of investors through internet platforms to finance promising projects, ensuring the attraction of capital directly by the population. Considering that this innovation financing system is expanding worldwide, the topic of its impact on innovation development requires separate scientific research.

The global crowdfunding market is demonstrating impressive growth rates. By 2023, the value of the global crowdfunding industry is projected to reach \$1.41 billion, and in the coming years, it is expected to double by 2030 with an annual growth rate of 14.5%. The Russian crowdfunding market also showed significant growth - from 2020 to 2024, it grew eightfold, from 7 billion to 53 billion rubles. These statistical data show that crowdfunding platforms occupy an important place in the modern financing system and serve as an alternative source of financing for innovative projects.

Crowdfunding platforms allow innovative entrepreneurs to overcome traditional financing barriers. Research has shown that crowdfunding campaigns not only attract financial resources but also perform market research, product testing, and advertising functions. Successful projects on such platforms as Kickstarter have accumulated an average of \$7,000, while

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Website: www.ejird.journalspark.org ISSN (E): 2720-5746

campaigns using video materials have accumulated 105% more¹. These indicators prove that crowdfunding has a positive impact on the process of innovative projects entering the market. Modern research shows that crowdfunding platforms change the nature of traditional user innovation. Users are now becoming entrepreneurs who not only generate new ideas but also commercialize their products. Crowdfunding platforms lead to a wider distribution of user-entrepreneurs and the emergence of user innovation systems, which democratize not only the creation of innovations but also their large-scale commercialization. Crowdfunding is also helping to increase the social responsibility of innovative projects by focusing on such topics as social capital, sustainability, and smart consumption.

The development of the crowdfunding system in Uzbekistan is accelerating thanks to the support of state programs. The "Green Aral Sea" project, initiated by the UN Development Programme (UNDP) in 2020, aims to raise \$100,000 for the planting of 100,000 saxaul trees through crowdfunding². This initiative was developed to test crowdfunding tools in Uzbekistan and create an example of this alternative financing method. The launch of local platforms such as Factor.uz and HALFANA also demonstrates concrete steps towards developing a system of collective financing of innovative projects in the country.

Empirical research on the relationship between crowdfunding and innovation has identified several important areas. Firstly, crowdfunding platforms provide democratic access to capital, allowing various entrepreneurs to receive financing and validate their ideas. Secondly, crowdfunding campaigns introduce the principles of open innovation by attracting feedback and ideas from users in the process of developing innovative products. Thirdly, crowdfunding platforms ensure the stability of the innovation ecosystem by developing trust relations between investors and project authors³.

Various crowdfunding models - reward-based, shareholder-based, and credit-based - have a unique impact on various areas of innovation. Award-based crowdfunding (Kickstarter, Indiegogo) is the most suitable for technological gadgets, design products, and creative projects. Shareholder-based crowdfunding allows startups to attract long-term capital. Crowdlanding platforms offer fast financing solutions to small and medium-sized businesses. Each model has its own role and function in the innovation ecosystem and, together, has a multifaceted impact on the development of innovation.

The effectiveness of crowdfunding platforms largely depends on the development of modern information and communication technologies. Innovations such as blockchain technology, increasing transparency and security, artificial intelligence algorithms, identifying the most promising projects, the integration of social networks, and increasing the effectiveness of promotional campaigns are constantly improving crowdfunding platforms. The digitalization process is also important in the areas of improving quality control, strengthening investor protection measures, and ensuring the stability of the platform.

¹ MIT Sloan Management Review (2016). How Crowdfunding Influences Innovation. Retrieved from: https://sloanreview.mit.edu/article/how-crowdfunding-influences-innovation/

² UNDP Uzbekistan (2020). #GreenAralSea – краундфандинг для новых возможностей. Retrieved from: https://www.undp.org/ru/uzbekistan/blog/greenaralsea-kraundfanding-dlya-novykh-vozmozhnostey

³ Future Business Journal (2024). Crowdfunding for innovation: a comprehensive empirical review. Retrieved from: https://fbj.springeropen.com/articles/10.1186/s43093-024-00387-5

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The development of crowdfunding platforms also depends on state policy and macroeconomic factors. The Law "On Attracting Investments through Investment Platforms," adopted in Russia in 2020, gave the field of crowdfunding official status and increased investor activity. Central bank supervision and regulation allowed a large number of new players to enter the market⁴. State support, tax incentives, and a regulatory environment have led to an increase in the role of crowdfunding platforms in the development of innovations.

The topic of the impact of crowdfunding platforms on the development of innovations highlights the scientific and practical issues facing us. Further research will require a deeper study of the influence of regional economic conditions and cultural differences on the success of crowdfunding campaigns, the relationship between crowdfunding and other types of entrepreneurial financing, such as venture capital, and the role of crowdfunding in the innovation ecosystem. At the same time, the assessment of the social and environmental impact of crowdfunding platforms in the context of the Sustainable Development Goals (SDGs) remains relevant.

Literature Review

In the process of analyzing the literature on the topic, a number of leading economists and specialists of the world have conducted scientific research on the influence of crowdfunding platforms on innovative development. Among them, Jermain Kaminski, Christian Hopp, and Teresa Tykvova, in their research, emphasize that Crowdfunding develops innovation not only financially but also by attracting the attention of strategic investors. In particular, he emphasized that successful crowdfunding campaigns serve as an important "market signal" for venture capital funds, shaping their subsequent investment decisions⁵.

In their research, Johannes Wachs and Balázs Vedres found that products (especially games and designs) created with the help of Crowdfunding are usually more innovative than those of traditional companies. They are distinguished by new combinations, experiments, and creative ideas⁶.

In her research, Lyudmila Denisova-Schmidt notes that crowdfunding in Central Asian countries is the only practical tool for innovative initiatives at the initial stage, especially in the absence of private investment. However, he emphasized that for its effectiveness, it is necessary to integrate entrepreneurial culture, internet infrastructure, and international platforms⁷.

Emerald Insight analysis "Crowdfunding is based on the principles of "open innovation" in the commercialization of innovations: there is a constant exchange of ideas between the author of the idea, the investor, and the consumer. This, in turn, activates innovation" he noted⁸.

⁴ Эксперт РА (2024). Краудфандинг в цифрах: лидеры, тренды, прогнозы. Retrieved from: https://raexpert.ru/researches/crowdfunding_2024/

⁵ Kaminski, J., Hopp, C., & Tykvova, T. (2016). VC Signaling Effects of Crowdfunding. https://doi.org/10.48550/arXiv.1608.07182

⁶ Wachs, J., & Vedres, B. (2021). *Crowdfunding and Innovation in the Board Game Industry*. https://doi.org/10.48550/arXiv.2101.02683

⁷ Denisova-Schmidt L. (2020). Entrepreneurship in Central Asia. Springer.

⁸ Bargoni, A. et al. (2024). *Crowdfunding and Innovation: A Bibliometric Review*. Emerald Insight. URL: https://www.emerald.com/insight/content/doi/10.1108/ejim-04-2022-0212/full/html

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Research Methodology

Economic research methods such as analysis of research conducted by world scientists on the influence of crowdfunding platforms on innovative development, collection of all information on the topic, comparison, and logical thinking were used.

Analysis and discussion of the results

At the beginning of the 21st century, when the global economy is undergoing digital transformation, traditional financing mechanisms - bank loans, venture capital, and state grants - have become insufficient to meet the growing number of innovative projects. The crowdfunding system, which emerged as a solution to this problem, has not only become a new way to attract financial resources, but has also redefined the processes of creating, testing, and marketing innovations. Therefore, this topic is one of the most pressing areas of modern economic science and requires extensive scientific research.

The increasing globalization of the world economy and the acceleration of technological development have led to an exponential increase in the number of innovative projects. However, while traditional financing systems cannot adapt to these changes, many promising innovative ideas remain unrealized due to a lack of financial resources. Despite the fact that millions of small and medium-sized businesses around the world apply to traditional financing institutions for the implementation of their innovative projects, many ideas remain unrealized due to strict requirements, high interest rates, and complex formalization processes. In these conditions, the emergence of crowdfunding platforms and the study of their impact on the development of innovation are not only of theoretical importance, but also a practical necessity for solving global economic problems.

With the formation of the digital economy, the nature of innovations and the methods of their financing have also fundamentally changed. Internet technologies, artificial intelligence, blockchain, and other digital tools have created a technological foundation for the development of crowdfunding platforms. These technologies not only eliminated geographical boundaries and made it possible to attract investors from anywhere in the world, but also simplified the processes of evaluating, monitoring, and tracking the progress of innovative projects. Therefore, studying the impact of crowdfunding platforms on innovation development is crucial for understanding and forecasting future trends in the digital economy. The study of this topic will allow us to predict the development of innovative ecosystems in the context of digital transformation.

For Uzbekistan and other developing countries, the study of the impact of crowdfunding platforms on innovation development is of particular strategic importance. In these countries, where traditional financing institutions are not yet fully formed and the venture capital market is underdeveloped, crowdfunding can become one of the main tools for the development of innovative entrepreneurship. Studying the role of crowdfunding platforms in the context of the "Digital Uzbekistan – 2030" strategy and programs for the development of the innovative economy of the Republic of Uzbekistan is a practical necessity. The results of this study will allow for the development of specific recommendations for increasing the country's innovative potential, creating new jobs, and implementing economic diversification.

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The emergence of crowdfunding platforms has led to a complex transformation process that has attracted all elements of the innovation ecosystem - entrepreneurs, investors, government bodies, educational institutions, and civil society organizations. While venture funds, business angels, and large corporations played a key role in the traditional innovation ecosystem, in the crowdfunding system, ordinary citizens also began to actively participate in the process of financing innovations. This transformation created the opportunity to democratize innovations, introduce them to the general public, and attract ideas from various social strata. Studying these processes is of great importance for understanding the new architecture of the innovation ecosystem and developing strategies for its effective development.

The impact of crowdfunding platforms on the development of innovations is not limited to the economic sphere, but also leads to broad social consequences. Through these platforms, not only technological innovations are financed, but also social, environmental, and cultural projects. Especially in the context of the Sustainable Development Goals (SDGs), crowdfunding platforms play an important role in supporting innovations that respond to global challenges such as combating climate change, solving environmental problems, and reducing social inequality. Therefore, the study of this topic is relevant not only for economic, but also for social sciences and requires an interdisciplinary approach.

Modern technological innovations - artificial intelligence, machine learning, blockchain technology, cryptocurrencies, and decentralized finance (DeFi) - are expanding the capabilities of crowdfunding platforms. This technological integration is leading to the emergence of new types of crowdfunding - tokenized crowdfunding, automated financing based on smart contracts, and project presentations through virtual and augmented reality. In the next 5-10 years, these technologies are expected to fundamentally change the crowdfunding ecosystem and further enhance its impact on innovation. In this regard, the study of this topic is necessary not only for understanding the current state of affairs, but also for predicting future trends.

The rapid development of crowdfunding platforms poses new regulatory challenges for government agencies. Such issues as investor protection, combating money laundering and the financing of terrorism, adapting the tax system, and ensuring a competitive environment require special attention in the field of crowdfunding. Different countries - the USA, Great Britain, Germany, Japan, and others - are developing unique regulatory models. The issue of choosing and implementing a model of optimal regulation for Uzbekistan is becoming increasingly relevant. The study of this topic will provide practical assistance to state bodies in developing sound legal and regulatory measures.

The topic of the influence of crowdfunding platforms on the development of innovations is interdisciplinary in nature and requires the unification of knowledge in various fields, such as economics, finance, management, jurisprudence, sociology, psychology, and information technology. This circumstance further increases the scientific significance of the topic, as it allows establishing connections between different disciplines and developing new interdisciplinary theories. This topic plays an important role in the development of new scientific directions, such as the digital economy, fintech, behavioral economics, and innovation management. An interdisciplinary approach is necessary for a comprehensive understanding of the phenomenon of crowdfunding and the study of all its aspects.

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Studying the impact of crowdfunding platforms on innovation development has broad practical significance, and its results can be applied in various fields. For entrepreneurs, this study will open up new financing opportunities and provide practical recommendations for organizing successful crowdfunding campaigns. For investors, it will serve as a guide for risk assessment and investment decision-making. It will be used in the development of modern entrepreneurship and innovation programs for educational institutions. It demonstrates opportunities for banks and financial institutions to improve their services in a competitive environment. For state bodies, it creates a scientific base that is justified in the development of economic policy. Thus, this topic requires research not only because it generates academic interest, but also because it brings practical benefits to various segments of society.

Table 1 Types of crowdfunding and their impact on innovation

Crowdfunding Tour	Degree of influence	Main Benefits	Target areas	Average accumulated funds	Success rate
Award-based	Upper	Preliminary product testing, market testing	Technology, design, games	\$7,000	36%
Joint-stock company	Medium- high	Long-term capital, investor communication	Startups, technology	\$50,000	22%
Loan (P2P)	Middle	Fast financing, low interest rate	CBC, production	\$15,000	85%
Donation	Low- medium	Social impact, team building	Social, ecological	\$2,500	60%

Various forms of crowdfunding have different impacts on innovation. In particular, award-based crowdfunding is an important tool for testing technological and design innovations in the primary market and understanding consumer opinion. Although these types of campaigns are usually small (\$7,000), they serve as a major stage in product commercialization. The average success rate is 36%.

Joint-stock crowdfunding allows attracting long-term capital for startups and technological innovations. This model attracts investors to the long-term success of the project, but this process is highly risky, and the success rate is limited to 22%. Nevertheless, the highest average revenue (\$50,000) is observed in this model, which is significant as a useful platform for strategic investments.

Crowdfunding in the form of loans (P2P) and donations is mainly effective for social projects or small and medium-sized businesses. The credit model is useful in production and rapid financing of the SME sector and has a success rate of 85%. The donation is characterized by the lowest financial volume (\$2,500), but it provides collective support for social and environmental innovations. In this case, the success rate is around 60%, which plays an important role in the process of team building and the dissemination of ideas.

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Table 2 Comparative analysis of large crowdfunding platforms

Platform	Country	Basic model	Total (billion \$)	Number of projects	Innovation Percentage	Average campaign duration
Kickstarter	USA	Reward	7.8	220,000+	65%	30 days
Indieg	USA	Reward/Promotion	2.5	800,000+	58%	Unlimited
GoFundMe	USA	Donation	25.0	120 million+	25%	Unlimited
Planeta.ru	Russia	Reward	0.2	8,500+	45%	60 days
Boomstarter	Russia	Reward	0.05	2,752	52%	45 days

As can be seen from the table above, such leading platforms as Kickstarter, Indiegogo, and GoFundMe occupy a dominant position in the US market, among which GoFundMe has the highest fundraising rate - \$25 billion. This figure is significantly higher than Kickstarter's \$7.8 billion and Indigogo's \$2.5 billion. In the Russian market, Planeta.ru and Boomstarter operate, but their financial indicators are significantly lower than those of US platforms: Planeta.ru is \$0.2 billion, while Boomstarter is only \$0.05 billion. This difference clearly demonstrates regional inequality in the global digital economy and the US's dominance in the field of technological innovation.

Kickstarter and Planeta.ru use a reward-based model, which allows project creators to pre-sell products or services. Indiegogo has chosen a hybrid approach, offering both premium and share-based financing. GoFundMe specializes in charity, focusing on collecting funds for personal needs, medical treatment, and social projects. Boomstarter also uses a reward model, but its size is much smaller than others. This diversity indicates that the crowdfunding industry is adapting to meet various social and economic needs.

Although Kickstarter has the largest portfolio with over 220,000 projects, it provides a success rate of 65% and operates for a short period of 30 days. Indiegogo has the largest volume with more than 800,000 projects, but is distinguished by a 58% success rate and an unlimited time duration. While GoFundMe is the absolute leader with 120 million projects, it has only a 25% success rate. On Russian platforms, Planeta.ru provides a 45% success rate with 8,500 projects, while Boomstarter shows a 52% result with 2,752 projects. This data shows that a large number of projects does not always guarantee high success.

The shortest-term campaigns are carried out on Kickstarter (30 days) and Boomstarter (45 days), which requires intensive marketing and quick decision-making. Planeta.ru offers an average period of 60 days, which gives the creators of the project more time. Indiegogo provides the most flexible approach with unlimited time. GoFundMe also works with an unlimited model, which corresponds to its charitable direction. Short-term campaigns typically require high intensity and focus on a specific goal, while long-term or unlimited campaigns allow for gradual audience building and establishing long-term connections. These time strategies shape each platform's unique market position.

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Table 3 Impact by category of innovative projects

Type of innovation	Crowdfunding effectiveness	Average accumulated funds	Success ratio	Long-term exposure	Examples
Tech gadgets	Very high	\$45,000	4.2	Commercialization 78%	Smartwatch, VR, IoT
Design & Art	High	\$12,000	3.8	Building a brand 65%	Furniture, clothing, art
Games	High	\$35,000	3.9	Franchise 55%	Board games, video games
Medicine and biotech	Middle	\$25,000	2.1	Regulation 30%	Medical devices
Environmental innovations	Medium-high	\$18,000	3.2	Social impact 85%	Solar panel, eco-material
Teaching technology	Medium-high	\$22,000	3.5	Scale 60%	EdTech, online courses

As can be seen from the table above, technological gadgets and consumer electronics are the absolute leaders in the crowdfunding ecosystem. The category of technological gadgets has the highest financial performance with an average savings of \$45,000, with a success rate of 4.2 and a commercialization rate of 78%. In this category, innovative products such as smartwatches, VR devices, and IoT (Internet of Things) technologies occupy a dominant position. Good results are also observed in the field of design and art - with an average cost of \$12,000 and a brand building indicator of 65%. The game category ranks third with \$35,000 and a franchise development rate of 55%. This data indicates that tangible products and visually attractive projects generate significant interest among investors and public financing participants.

Projects in the field of medicine and biotechnology are one of the most financially difficult areas, although they have high social significance. While the Medicine and Biotech category shows average results with an average income of \$25,000, it has the lowest performance with a success rate of 2.1. At the same time, only 30% of projects receive commercial tax, which indicates the complexity of innovations in this area and the need for long-term research. Products such as medical instruments, new medicines, and diagnostic methods require high technical knowledge, stringent regulatory requirements, and substantial financial investments. Nevertheless, this area is socially very important and plays a decisive role in improving human health and quality of life.

Environmental innovations and educational technologies demonstrate a model of sustainable growth with average indicators. Environmental innovations achieved an 85% social impact indicator with an average cost of \$18,000 and a success rate of 3.2. This category includes projects such as renewable energy sources, waste recycling technologies, and eco-friendly materials. Educational technologies provide 60% scalability with an average cost of \$22,000 and a success rate of 3.5. Online educational platforms, interactive learning materials, and distance learning solutions are widespread in the field of EdTech. Both of these sectors are

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supported by investors and society, as they are focused on long-term social benefits and sustainable development goals.

There is a direct correlation between the success rate and the level of commercialization, which emphasizes the importance of strategic planning and market preparedness. Technological gadgets with the highest success rate (4.2) also achieved the highest level of commercialization (78%), which indicates mature market mechanisms in the technology sector and the stability of consumer demand. On the contrary, medicine and biotech with the lowest success rate (2.1) also have the lowest commercialization rate (30%). Design and art (coefficient 3.8, 65% brand building), games (coefficient 3.9, 55% franchise), and educational technologies (coefficient 3.5, 60% scaling) demonstrate a stable development trajectory with average indicators. This pattern shows project creators the importance of adapting their ideas to market needs and commercial opportunities.

Summary and suggestions

Crowdfunding expands the social base of innovation not only by attracting financial resources, but also by involving society in innovative processes. Especially for women, youth, and entrepreneurs in developing regions, these platforms are an important tool for supporting them in their first steps. Many successful technological solutions, social projects, and environmental initiatives have been implemented precisely through crowdfunding. Through such a model, idea holders will have the opportunity to receive not only capital, but also feedback, networking, and advertising services from the target audience. This will increase the success of the project and the number of participants in the innovation ecosystem.

To increase the impact of crowdfunding platforms on innovative development in Uzbekistan, it is advisable to implement the following measures:

Development of a separate law or regulatory legal acts regulating crowdfunding activities; Creation of a national crowdfunding platform operating in Uzbekistan, integrated into local payment systems;

Provision of temporary tax benefits for projects financed through crowdfunding;

Development of incentive mechanisms for investors investing in crowdfunding platforms;

Establishing incubator centers that provide advice and technical support to startups and inventors to launch crowdfunding campaigns.

Annually identify the best innovative projects financed through crowdfunding and support them with additional state grants.

Establishing cooperation with major crowdfunding platforms abroad (Kickstarter, Indiegogo, etc.).

Creation of special programs that contribute to the appearance of domestic projects on international platforms.

Improvement of the technical infrastructure for the safe and stable operation of crowdfunding platforms.

The implementation of these proposals will make a significant contribution to increasing the impact of crowdfunding platforms on innovative development in Uzbekistan.

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