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BANK INNOVATIVE LENDING SYSTEM: TRENDS OF FORMATION AND DIRECTIONS FOR PROMOTING DEVELOPMENT IN UKRAINE

The article states that banking system needs to reform, modernize the mechanism of lending, taking into account such an object of lending as innovation, which is a key force for economic growth. It is known that there is no integral methodology for the systematic organization of bank innovative lending, and the works of most scholars are devoted to issues of lending as a system without explaining its essence. The necessity of creating a bank innovative lending system as a set of interrelated subsystems (supporting, managing and managed ones) has been proved. The forms, methods and factors of influence of innovative lending at different levels of the economy have been studied. The input and output parameters of the system have been determined; interrelationship with the external environment – the macro-, meso- and microeconomic level – has been established. The factors of the passive role of bank credit in financing the needs of innovative development of Ukraine have been revealed; and measures for promoting lending innovation activity by the state have been offered.

Key words: bank, innovative lending, system, constituent elements (subsystems), economic levels, factors of influence, state, measures for promoting development.

У статті зазначено, що банківська система потребує реформування, модернізації механізму кредитування з урахуванням появи такого об'єкта кредитування, як інновації, що є ключовим двигуном зростання економіки. Встановлено, що цілісна методологія системної організації банківського інноваційного кредитування відсутня, а праці більшості науковців присвячені питанням кредитування як системи без розкриття її сутності. Доведено необхідність побудови системи бан-

ківського інноваційного кредитування як сукупності взаємозв'язаних між собою підсистем (підтримуючою, керуючою та керованою). Досліджено форми, методи та фактори впливу кредитування інноваційної діяльності на різних рівнях економіки. Визначено параметри входу та виходу системи, встановлено взаємозв'язок із зовнішнім середовищем – макро-, мезо- та мікроекономічним рівнем. Розкрито чинники пасивної ролі банківського кредиту у фінансуванні потреб інноваційного розвитку України та запропоновано заходи стимулювання державою процесів кредитування інноваційної діяльності.

Ключові слова: банк, інноваційне кредитування, система, складові елементи (підсистеми), економічні рівні, чинники впливу, держава, заходи стимулювання розвитку.

Problem statement. Not all Ukrainian commercial banks are now able to offer customers products that can be implemented by capital-intensive projects, such bank products as investment lending and project financing, directly aimed at financing innovations. The lack of interest from banks is due to the increased level of risk inherent in innovation activity, which is one of the main problems of innovation development in the country.

Today, the issue of reviewing credit and investment policy and developing a new approach in general to the process of lending by commercial banks is relevant, which is in line with the challenges of the economy and current trends. The banking system needs to reform, modernize the lending mechanism, taking into account the emergence of a new lending facil-

ity, such as innovation, which is the key force of economic growth.

Insufficient amount of scientific researches on the definition of methodological foundations of interaction of credit and innovations, insignificant part of theoretical research, allowing on the doctrinal level to form the system of financing of investment-innovation require an empirical search for practical solutions. The reduction of profitability of banking operations and high uncertainty of the environment needs to develop new approaches to the relationship of a bank and the entity of innovation, credit portfolio, credit assessment and risk management in financing innovative projects. In this regard, the issues of development of bank innovative lending, as an instrument of financial support for innovative development tasks, are of particular importance.

Analysis of recent research and publications.

The study of theoretical and practical aspects of creating a well-organized and well-founded system of financing innovation activity, promoting investment processes, a detailed analysis of the possibilities of capital mobilization for the implementation of innovations by banks takes a leading place in the works of both foreign and domestic scientists.

The leading foreign researchers who study the issues of financing innovations by the banks are: P. Alessandrini, M. Amore, L. Benfratello, S. Chava, J. Cornaggia, P. Hsu, R. Nanda, T. Nicholas and many others.

The theoretical basis for determining the effects of changes in banking sector on the development of innovation and the formation of measures to improve the efficiency of financing innovations has been developed by O. Amosha, B. Heiets, M. Zvieriakov, V. Zymovets, M. Krupka, L. Kuznietsova, I. Lazepko, A. Moroz, O. Obolenskyi, S. Onyshko, A. Peresada, B. Pshyk, S. Tihipko, M. Savluk and other scientists.

In the works of these scholars, the issues of increasing the role of bank investment credit in the general system of financial support for innovation transformations in order to achieve the strategic goal in the development of Ukrainian society also have been considered.

Emphasizing previously unsettled parts of the general problem. Despite a significant amount of scientific research on determining the forms of financial support that innovative enterprises can take advantage of, the problem of financing innovative projects by banks remains unresolved.

A set of issues aimed at the allocation of an

for scientific research and the search for solutions to the problems of financing reindustrialization and innovative development of the economy through the mechanisms of bank lending led to the choice of the theme and purpose of the study.

The purpose of the study is to develop recommendations for creation and implementation of the bank innovative lending system in Ukraine.

Presentation of the main research material.

Bank innovative lending as a source of financial resources for the development of innovative projects has become most widespread in developed countries: in the USA, Israel, Germany, and Japan. 30-40% of all investment goes to the innovation sector through commercial banks [1].

In Ukraine bank credits occupy a small share in credit portfolios, as monetary aspects prevail in Ukraine's current state monetary policy, and there is not enough attention to credit in it. Excess of growth rates of banks' credit resources over GDP growth rates in Ukraine did not bring the expected positive effects due to separation from real material flows, that is, the credit was isolated from the needs of economic development. This leads to a technological lag of economies in a significant number of regions, but, in the future, if they do not take effective rational decisions on financing innovative development, this will lead to a gradual degradation of the national industrial sphere of the country. The current passive role of bank credit in financing the needs of innovative economic development in Ukraine is determined by the following factors:

- firstly, the lack of adequate long-term and cheap resources in domestic banks, necessary to provide innovative lending to the economy;

independent segment of the financial market – the system of bank innovative lending, identification of its elements, providing coordination with tasks at the macro, meso and microeconomic levels, generating synergy effects in the financing of innovation activities in the long run requires further research.

Setting objectives. Among the main factors hindering innovation activity is the high level of transaction costs caused by a faster, compared with inflation, dynamics of prices and tariffs for products and services of natural; a steady increase in real wages at a pace that far exceeds the growth of labor productivity. In the context of the global crisis in Ukraine, macroeconomic indicators have deteriorated significantly, and the destruction of the scientific and production potential, which provided a continuous innovation cycle, was particularly dangerous for the country's economic security.

The insufficient development of these problems of a theoretical and practical nature, the need

– secondly, not quite satisfactory state of legislative and judicial protection of bank-creditors from actions of unscrupulous borrowers;

– thirdly, the current normative base of banking regulation does not fully correspond to the real level of risks of innovative lending; the lack of effective stimulating supervisory mechanisms leads to the creating increased banks' reserves while lending start-up innovation or venture projects;

– the fourth, a key deterrent factor is the significant level of available overdue loans and non-core assets on the balance sheets of banks, which leads them to the need for higher reserves, and also creates additional costs for the maintenance of mortgaged property.

It is also necessary to note the underdevelopment of institutions of long-term savings in Ukraine (there are no venture, insurance, mutual funds), as well as the stock market (shares and bonds). Banks are practically the only cash holders and their transformation in a certain part because of

long-term lending in fixed capital investments [2]. Taking into account the macroeconomic realities that are taking place today in Ukraine, the banking

meso (a region), macro (a state), hyper (a global region) and global (Global System) [3]. However, in our work, according to the objectives, we will

system needs to develop a system of measures for investment support of innovation activities of domestic companies, namely: it is necessary to select projects aimed at developing business of clients, to develop measures to reduce project and credit risks, as well as to form a scheme for financing projects. The banks should help bring innovative projects to the point where their funding can be made, as well as provide a range of services to support these projects. Then, the guarantees of clients' business efficiency will be the basis for management of banks' credit innovative risks.

Implementation of the above mentioned tasks is only possible when using a systematic approach, since a bank innovative lending is under the influence of a large number of external and internal factors and depends on state support of both innovative enterprises and banks themselves. Also, it should be noted that identifying the optimal conditions for the functioning of bank innovative lending needs to determine the scope of the bank's involvement in lending innovative needs for economic growth. Depending on the scope, the innovation and its lending can be carried out on six economic levels: nano (an individual is an innovator or a consumer), micro (a company),

determine possible lending options and factors of influence at three economic levels (Table 1).

Thus, the forms and methods of lending to innovation activities depend on the following: firstly, on the position of the entity in the system of different levels of the economy; secondly, on the factors of influence, the development of instruments of influence at each level of management of the system of financing innovative programs and projects; thirdly, on the specific purposes of attracting financial resources (current or investment); fourthly, on the terms: short-term, medium-term or long-term; fifthly, depending on the level at which the innovation activity is implemented, the lender will change.

Proceeding from the above, there is a need to create a system of a bank innovative lending, the functioning of which requires consideration of all components of the credit process, their relationship with each other, on the one hand, and with the elements of macro, meso and microeconomic environment, on the other hand.

Analysis of various sources devoted to the issues of bank lending, suggests that there is no concept of "bank innovation lending system" as a coherent economic category. Some scientific

Table 1

Forms, methods and factors influencing the lending of innovation activities at different levels of the economy

Economic level	Possible forms and methods of lending	Factors of influence
Macro	<ul style="list-style-type: none"> – project financing – syndicated lending – state credit 	Investment and innovation climate of the state. State innovation policy, fiscal policy, monetary policy. Development of the national innovation system. Possibility of state regulation and control of investments.

		Macroeconomic indicators of the country's economic development. Technological economy.
Meso	– project financing – syndicated lending	Investment and innovation climate of the region. State support, development of institutes of innovative development. Development of scientific and educational and general economic infrastructure. Quality of life of the population of the region, technological economy of the region.
Micro	Bank lending: – in the form of traditional single loan to a client, crediting an account or opening a credit line, overdraft, leasing; – by terms: short, medium or long term	Innovative economic entity, market activity, competitive environment. Dependence on the investment climate. Investment and innovation project. Level of organizational technologies, innovative potential. Targeted character of financing. Resource and investment security, market for innovative products. High level of control.

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works of modern scholars on lending as a system do not reveal its essence, but merely mention the lending system, focusing on credit risk management, creditworthiness assessment and analysis of the borrower`s activity, lending agreement parameters, etc. But the integrated methodology of the systematic organization of bank innovative lending is absent both in scientific publications

In accordance with the above, it should be noted that the input and output parameters of the financing systems of innovation programs and projects and of bank innovative lending are interconnected, which implies that the latter is an integral part of the overall system of financing the innovation activity of the country and one of the main elements of development of the industry,

of foreign authors, and in the works of domestic scientists.

In the most general view, the researchers present a system of bank lending as a set of its constituent elements, which include principles and objects of lending, mechanism for credit provision and repayment, control at various stages of the lending process, while the principles of lending form its main element [4; 5]. In our opinion, the identification of these elements of lending system as the main ones is not entirely justified, since all the elements are interdependent by their definition and are equally crucial for the effective functioning of the lending system. In addition, this composition of the elements does not reveal the concept of a lending system.

The following definition is of greater interest in terms of the completeness of the elements structure: "Lending system is a set of elements that ensure the rational use of loan resources, which covers the principles, objects, methods of lending, planning credit relations, the mechanism for providing and repaying loans, as well as bank control in the process of lending, that is, includes the elements related to the activity providing loan resources by the creditor" [6]. This definition most closely characterizes the lending system. However, as an important element, the entities and the subject of lending are not named. And such main elements as legal aspects of bank lending are not mentioned.

Consequently, the following objective of this article is to create a system of bank innovative lending, using the system theory in determining the relationships among its components.

In Greek language *system* is a unit, composed of connected parts, that is, in the most general

region or group of enterprises engaged in innovation activity.

Further, we should note that the complex system of bank innovative lending is a subset of subsystems and consists of a scientific, managerial and managed one, each of them has its own multi-level, complex subsystems.

The subsystem of scientific support of innovative bank lending is based on the scientific approaches of innovative marketing, which depends on the quantity and quality of application of managerial decisions by credit management.

Objective competition laws and time saving require increased costs for improving the quality of strategic decisions at the early stages of the life cycle of innovative lending for the sake of for the sake of repeated savings at the next stages.

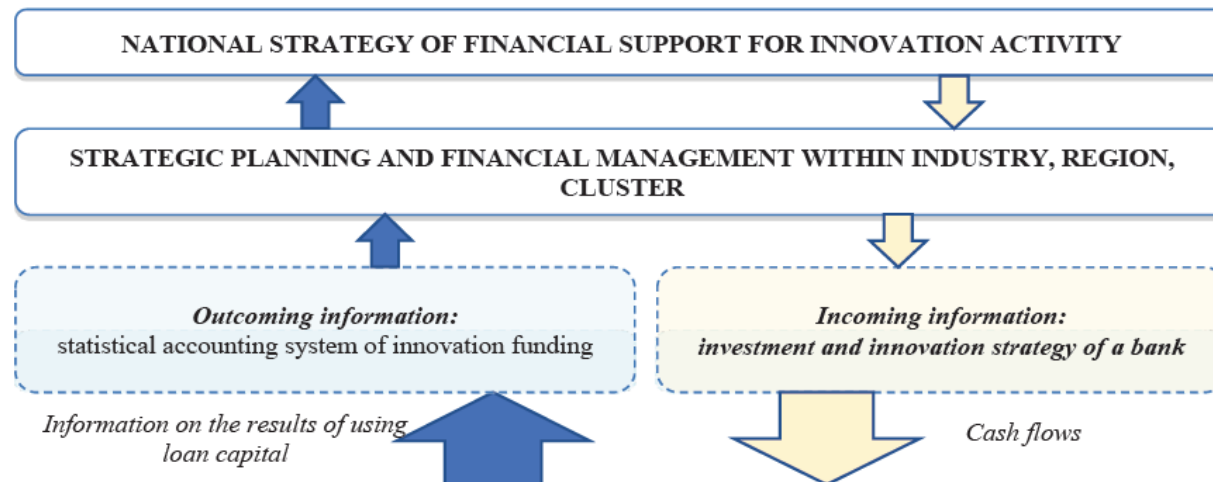
The need to select a separate subsystem of scientific support is confirmed by the fact that the lending of innovation activities is defined by the essential features of innovation activities, which are determined through the awareness of the role of innovation in the modern world and the increase of the innovative component in the structure of business processes. Observing the growth of the number of high-tech industries in recent decades, one can state that science plays an increasingly important role in the economy, and not only the level of development of the state affects the science, but the degree of science development determines the speed of progress in the country.

However, we note that the results of the current economic analysis of the enterprise – borrower conducted by commercial banks in Ukraine are oriented towards their internal use, while modern innovative banks in developed financial markets are increasing the costs for organizing and

representation system is a set of elements that are related and tied with each other, forming certain integrity, unity [7].

In management, in most cases, a system refers to an object that has a complex internal structure, a large number of components and elements that interact with each other and with the environment, each of which contributes to the characteristics of the whole [8; 9]. The application of the system approach allows considering the bank innovative lending as an open system, where the input and output parameters are cash flows and the results of using loan capital (Figure 1).

developing their own research, which consists of works of scientific analytical, methodological, informational, expert-control and organizational character, monitoring of changes in legislation and regulatory framework for investment and innovation activities. We believe that these trends are due to several reasons. Firstly, banks provide the clients with their own analytical material in the form of recommendations, market assessments, forecasts, which is an indicator of the high level of service quality and its capabilities. Secondly, quality research and analytical work is the basis of successful investment management, asset



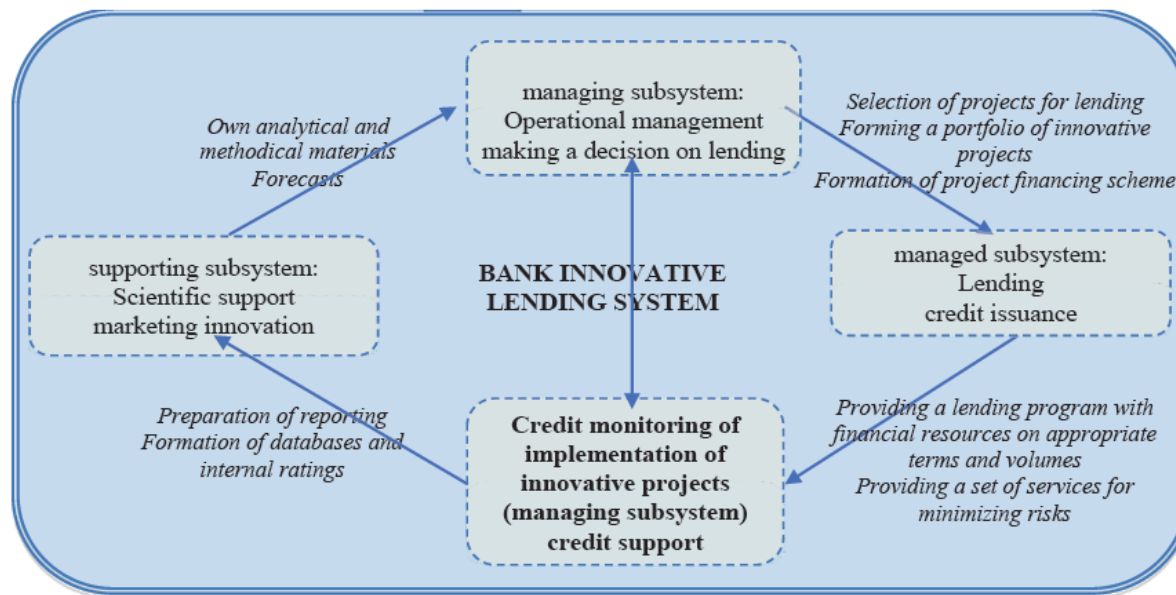


Fig.1. Operating scheme of a bank innovative lending system

Source: compiled by the author

management, attracting external financing, and creating conditions for attracting innovation companies as clients [10].

The subsystem that manages is the highest level of the hierarchical structure of the bank innovative lending system. It is represented by systems of operational management of various components of subsystems of the second degree of the hierarchy; for example, the subsystem of the functions of management of the process of innovative lending is an interrelated set of typical processes of planning, organization, coordination and regulation, management of motivation, organization of interaction and control. Each typical process consists of single actions – elements of the system. At the same time all elements, processes, subsystems have different types and numerous connections and interactions.

The managed subsystem. Lending also con-

The integral elements of the managed subsystem of lending are as follows: *entities, object* and *subject of lending*, which collectively determine the form of movement of loan capital.

The entities of innovative bank lending are banks-lenders and loan recipients – legal entities or individuals who are able to perform economic transactions, including credit agreements. These include: commercial enterprises and organizations; nonprofit enterprises and organizations; financial organizations; non-residents – legal entities; entrepreneurs. That is, the entities of bank lending of innovation activity are innovative-active participants of the economy of various organizational and legal forms, various forms of ownership, including entrepreneurs.

The object of lending in the context of our research is the innovative activity of the entity as a specific process. The subject of bank innovative

sists of several stages of the hierarchy. The main task of the first stage of a controlled subsystem is the optimal functioning of its components (personnel, finances). Subsystem of lending is characterized by a complex combination of financial, material, information flows and methods of their processing, which are specified by the effect of technical and technological factors.

lending is an innovative project initiated by innovation – active enterprises, entrepreneurs and/or banks. The main subject of innovation lending is: modernization of fixed assets (acquisition of high-tech equipment); introduction of new technologies; commercialization of innovative scientific and technical developments; creation of infrastructure (for example, industrial technology parks), etc.

For a bank-lender innovative lending is at increased risk, but in terms of strategic goals of innovation development and national security the availability of such loans (innovative credit) becomes an indispensable tool for banks' financing innovative development of the economy.

The next component of the subsystem is the methods of lending and means for regulating credit indebtedness, which are defined by the normative documents of central banks, in Ukraine it is the NBU, and represent ways of issuing and repaying a credit in accordance with the principles of lending.

We should note that taking into account the specificity of innovative lending, namely, the need to use long-term financial resources and the inherent nature of a large number of risks, the degree of influence on the subject of lending; banks use

based on the expert judgment of an independent appraiser, in accordance with the recommendations of the central bank, or on the basis of the internal bank methodology.

We should note that the management system for promoting active participation of bank credit as a source of funding for innovative development of economy of Ukraine is advisable to form considering the tasks at three levels, mentioned by us earlier, namely, at macro-, meso- and microeconomic levels.

At the macroeconomic level, the participation of bank innovative loans is determined by the formation and implementation of a national strategy of financial support for innovation activities (including implementation of large innovative projects, promoting the activity of innovative and active small and medium enterprises, develop-

direct and indirect lending.

The major direct methods of innovative lending include: the provision of traditional bank loans, opening of credit lines, overdraft and leasing lending, factoring, acquisition of securities of enterprises-innovators by a bank, syndicated lending, project financing, etc.; that is, the direct impact of bank credit as a source of financial support on the development of innovation in the economy.

The main indirect methods of innovative lending include: the participation of bank credits in mezzanine lending, syndicated loans, banking consortia (syndicates) and participation in venture lending; that is, on the basis of these methods the indirect impact of a bank credit on financing innovative development of the economy is carried out.

An important component of the managed subsystem of innovative bank lending is *credit risk management*, which is carried out in accordance with the credit policy developed individually by each bank according to the requirements of central banks (in Ukraine – the NBU) acting as the *regulatory, supervisory and control body of banking activities*. This subsystem is also complicated since it is divided into the following components:

- management of the individual borrower`s risk, which is carried out by determining the borrower`s creditworthiness when making a decision on the provision of an innovative loan; regarding the specifics of the object of lending, great attention is paid to the analysis of cash flows;
- risk management of a bank`s credit portfolio, which in the most general form is understood as a set of loans reflecting their dynamics, classified on the basis of criteria of credit risk, profitability and liquidity;
- management of the provision of loan repay-

ment of export-oriented innovative business).

At the mesoeconomic level commercial banks serve as regional leaders of the state innovation policy, assessing the innovative potential of the region, forming the demand of companies for financial resources, lending by redistributing financial resources in favor of priority projects.

The microeconomic level is represented by commercial banks, which form the corresponding business processes for the realization of the tasks of innovative lending of previous levels and independently build up a policy in support of innovative projects of their clients on the basis of available financial resources.

We also consider it necessary to note that modern bank innovative lending in Ukraine is in a difficult situation due to a number of circumstances, the main of which are the following:

- enterprises engaged in innovative activities usually are not able to provide the necessary collateral, and intangible assets which is available in the company are not accepted by banks as collateral;
- limited ability of banks to take high risks because the NBU, in accordance with the recommendations of the Basel Agreements, establishes more rigid standards of liquidity and capital adequacy, provisioning methodology for credit operations for commercial banks, which significantly complicates the development of innovative lending;
- lack of methods for assessing the solvency of borrowers who carry out innovation activities, which complicates the assessment of risks of the innovation project and prevents the possibility of setting the rate for innovative credits at the level that applies to ordinary borrowers;
- problems in the banking system, the complex macroeconomic environment cause the lim-

ment; bank managers determine the most effective for each innovative loan forms and types of security; the valuation of collateral may be

ited long-term credit resources needed for lending innovative projects both on the external and on the local market, which also increases its cost.

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The solution of the above-mentioned problems requires the state promotion for lending innovation activities, which is one of the elements of the state innovation policy of the country and is intended to intensify the activity of commercial banks of Ukraine. The measures aimed at improving profitability and innovative credit operations of banks, may include:

- 1) exemption from taxation of bank profits received from operations with innovative lending;
- 2) reduction of the current tax rate in relation to the bank profits received as a result of innovative lending operations;
- 3) reduction of the rate of obligatory reserve of resources attracted for a term of one year, which, on the one hand, will lead to an increase in the resource base of innovative lending, and on the other hand, will reduce the value of these loans for the final borrower;
- 4) granting banks the right to include the value of the mortgaged property (property rights) of the borrower in the calculation of the amount of the

Only creating conditions for attracting financial resources for innovation and ensuring the development of a system of preferential bank lending for innovations can lead our country to a new, innovative stage of development.

Conclusions from the conducted research.

1. It has been studied that creating a bank innovative lending system needs to take into account all the components of the lending process, their relationship with each other and with elements of macro-, meso- and microenvironment that determine the optimal conditions of its operation.

2. It is determined that the system of bank innovative lending is intended to ensure the rational use of loan resources and represents a set of multi-level subsystems, which are as follows:

- *scientific support* (organization and development of own research: scientific, analytical, methodical, information, expert-control and organizational works, monitoring of changes in legislation and the regulatory framework of investment and innovation);

provision for compensation for possible losses on the provided innovative loans in the amount of not less than 50% of the market value of collateral;

5) exemption from taxation of bank profits obtained as a result of lending to innovative projects of strategic importance to the state.

In turn, in order to reduce the risk of banks' lending and innovation activities, it is necessary: to further strengthen the stability of the national currency; to implement the mechanism of long-term refinancing commercial banks by the National Bank of Ukraine based on the availability of highly effective innovative projects that have a strategic priority in terms of the objectives of state economic policy; to introduce the mechanism of state subsidies for interest rates on innovative loans; to organize state insurance of innovative loans and provide state guarantees on strategically priority directions of innovative financing; to create mechanisms for financing innovative projects within the framework of public-private partnership as it contributes to harmonization of interests of the state and business in the innovative development and increase of investment resources.

– *operational management* (management functions of innovative lending: planning, organization, coordination, regulation, motivation management, organization of interaction and control);

– *lending* (form of movement of loan capital, lending practices, methods of regulation of credit debt, credit risk management, subject to regulation, supervision and control by the NBU).

3. It is determined that at the current stage of development the bank innovative lending in Ukraine is in a difficult situation, its promotion will be facilitated only by state incentives aimed at providing a higher level of profitability of credit-innovative operations and reducing the level of bank risks from investing to innovative projects in comparison with risks from investing other active banking operations.

4. It is recommended, as a further development, to ensure the promotion for bank innovative lending in Ukraine at the expense of creating conditions by the state for reducing bank risks while lending investment projects by guaranteeing credit financing of innovations on a competitive basis with the priority of implementing multi-sectoral and multi-purpose projects.

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Zavad'ska D.V.

BANK INNOVATIVE LENDING SYSTEM: TRENDS OF FORMATION AND DIRECTIONS FOR PROMOTING DEVELOPMENT IN UKRAINE

The purpose of the article is to develop recommendations on the creation and implementation of a bank innovative lending system in Ukraine.

Research methodology. The information base of the research is the results of scientific advances in applying the systemic approach to addressing the issues of financing innovative projects by banks,

published in monographic studies and publications in periodicals. During the research, the following general scientific methods and techniques have been used: monographic – for studying literary sources on the themes of research; formal logics – to analyse the material and systematize approaches to form a bank innovative lending system; scientific abstraction – for a theoretical generalization, the formulation of conclusions; tabular and graphical representation of research results.

Results. The article emphasizes that the banking system needs to reform, modernize the mechanism of lending, taking into account the emergence of such a lending object as innovation, which is the key force of economic growth. According to the results of the analysis of banks' participation in lending to the economy, the factors contributing to the passive role of bank credit in financing innovative economic development of Ukraine have been identified. It has been established that there is no integral methodology for the systematic organization of bank innovative lending, and the works of most scholars are devoted to issues of a lending system without explaining its essence. The formulated conclusions reveal the purpose of a bank innovative lending system, directions for raising the profitability level and reducing the risk of credit and innovation bank operations.

Scientific novelty. The article proposes to create a system for promoting the participation of bank credit as a source of funding for Ukraine's innovation development, taking into account the objectives of macro-, meso-, and microeconomic levels; it is determined that the input and output parameters of the financing systems of innovation programs and projects and bank innovative lending are interrelated, which implies that the latter is an integral part of the overall system of financing the innovation activity of the country and one of the main elements of the development of industry, region or group of enterprises, engaged in innovation activity; the methodological provisions concerning the creation of a bank innovative lending system and the need to separate the components of its subsystems have been formed.

Practical significance. The practical significance is that scientific research clearly and consistently proves the necessity of creating a system of bank innovative lending and reveals its subsystems, the set of which consists of supporting (scientific support), managing (operational management), and managed (lending) subsystems. The results obtained further will be used to develop recommendations on financial and credit incentives for innovative development of the economy.

Key words: bank, innovative lending, system, constituent elements (subsystems), economic levels, factors of influence, state, measures to promote development.