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CONTROLLING IN THE MANAGEMENT OF FINANCIAL AND ECONOMIC SECURITY OF ENTERPRISES

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The relevance of the research topic is due to the need to justify the advantages of using controlling in the management of financial and economic security of enterprises in Ukraine.

The purpose of the article is to develop theoretical positions and methodological recommendations for improving the controlling system in the management of financial and economic security of enterprises.

The methodological basis of the research is comprehension of the totality of theories and scientific approaches to controlling, grounded in the works of national and foreign scientists. During the study, the following methods and approaches were used: methods of analysis and synthesis, abstract and concrete, historical method, factor analysis, structural and functional analysis, system approach.

Findings. It is proved that the complex structure of the enterprise controlling system must meet all needs, correspond to the goals and objectives of a particular enterprise and be adapted to its internal and external environment. At the same time, it should be unique and flexible, allowing for any changes that depend on the needs and capabilities of the organization.

It is also proved that in the complex index of financial firmness the following indicators were removed: coefficient of maneuverability of current assets, coefficient of assets mobility, index of fixed assets. In our opinion, these indicators are not so important to reflect the financial sustainability of the enterprise, since coefficient of maneuverability of current assets is directly related to the cash turnover ratio, and the coefficient of asset mobility is related to the current asset turnover.

Keywords: controlling, financial and economic security, complex index of financial firmness, controlling system of an enterprise.

КОНТРОЛІНГ В УПРАВЛІННІ ФІНАНСОВО-ЕКОНОМІЧНОЮ БЕЗПЕКОЮ ПІДПРИЄМСТВ

Актуальність теми дослідження зумовлена необхідністю обґрунтування переваг використання контролінгу в управлінні фінансово-економічною безпекою підприємств в Україні.

Метою статті ϵ розробка теоретичних положень і методичних рекомендацій по удосконаленню системи контролінгу в управлінні фінансово-економічною безпекою підприємств.

Методологічною основою дослідження ϵ осмислення сукупності теорій і наукових підходів до контролінгу, обґрунтованих у працях вітчизняних та зарубіжних учених.

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У ході дослідження використано такі методи й підходи: методи аналізу і синтезу, абстрактного та конкретного, історичний метод, факторний аналіз, структурно-функціональний аналіз, системний підхід. В роботі проведено аналіз досвіду побудови логістичних центрів в провідних країнах світу.

Доведено, що складна структура системи контролінгу підприємства повинна відповідати всім потребам, відповідати цілям і задачам конкретного підприємства і бути адаптованою до його внутрішньої і зовнішньої середах. Одночасно вона повинна бути єдиною і гнучкою, що дозволяє проводити будь-які її зміни, що залежать від потреб і можливостей організації..

Доведено, що в комплексному показнику фінансової стійкості були видалені такі показники: коефіцієнт маневреності оборотних активів, коефіцієнт мобільності активів, індекс постійних активів. На нашу думку зазначені показники не є настільки важливим для відображення фінансової стійкості підприємства, оскільки коефіцієнт маневреності оборотних активів напряму пов'язаний із коефіцієнтом оборотності грошових коштів, а коефіцієнт мобільності активів пов'язаний із коефіцієнтом оборотності оборотних активів.

Ключові слова: контролінг, фінансово-економічна безпека, комплексний показник фінансової стійкості, системи контролінгу підприємства.

Problem statement. In conditions of a market economy, the actual task is to create a system of methods for diagnosing the states of safety (danger) of the enterprise, which allows, basing on the information received and properly processed, to calculate objective criteria, on the basis of which not only the state of danger can be recorded, but also the enterprises can be found on which worsening of financial standing is possible the future.

Therefore, we set ourselves the task to determine the place of research in the system of existing approaches, directions and methods of controlling and financial and economic analysis (diagnostics) to determine the critical states of economic entities, as well as their specifics and features.

The growing popularity of controlling can be accounted for new opportunities not only for management, but also financial management of the company as a whole. Enterprises that have created controlling service have increased the efficiency of using all types of resources, significantly improved the quality of management decisions, and hence the financial and economic security of enterprises. However, it should be noted that the scheme of controlling, which operates abroad, cannot be fully implemented in our conditions.

Analysis of recent research.

When analyzing the views on the essence of controlling, it is revealed that the issues of accounting and analytical support for the economic security of enterprises were investigated by many scholars, namely R. Mann [1], E. Mayer [2], N. Gladkih [3], V. Lagutin [4], A. Kozub [5], I. Blank [6], P. Horvath [7], N. Losbichler [8], and others.

Insufficient development of theoretical and methodological provisions of controlling, as well as the scientific-theoretical and practical significance of these problems, led to the choice of the topic.

Formation of the purpose of the article.

The purpose of the article is to develop theoretical provisions and methodological recommendations for improving the controlling system in the management of financial and economic security of enterprises.

Presentation of the main results.

Modern controlling is provided by very diverse tools. The views of the vast majority of researchers in the area of controlling converge on the issue of maintaining controlling instruments and their compliance with the tasks, as well as their integration with methods of financial and economic security management of enterprises (Table 1).

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Table 1

Characteristics of	f general	controlling	tools
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Integrated tasks	Tools	Characteristic
Operative collection of	Management	Collection, registration and generalization of all
information, presentation	accounting tools	information for making managerial
of information, adaptive		decisions. Coverage of all business parties
planning		
Planning of functional areas of activity	Budgeting	The budget is a result of operational planning, expressed in economic indicators. Serves to manage costs, revenues and liquidity. Budgeting is a formal planning process
Analysis, control	Analysis of deviations; analysis of costs and results	The use of the main types of economic analysis - factor analysis, cost analysis, comparative analysis
Project planning, product planning	Network planning; investment calculations; cost calculations	Network planning is used for complex objects and projects. Calculations and estimates are used to determine costs
Program planning	Break-even point analysis; portfolio analysis; performance calculations;	Allow you to choose the optimal version of production in the prevailing conditions, the most profitable options for production, to calculate the impact of risk factors and choose the best investment option.

Most authors who are researching controlling problems agree that controlling tools can be divided into strategic controlling tools and operational controlling tools. Such a conclusion obviously follows from the intended use of these types of controlling.

Operational and strategic controlling are in constant interaction. Operational planning depends on the strategic one. Conversely, operational decisions provide important impulses for the strategic stabilization of the enterprise.

The main difference between strategic controlling and operative is that the strategic controlling is focused on the tendencies of the future, while operational one is based on the "past". It defines the fundamental differences between strategic and operational controlling in goal setting, the domination of functional zones, objects of planning and control, tools.

But for each specific organization, the system of controlling will be its own, due to the peculiarities and specifics of each organization, it is impossible to implement a ready-made model of the controlling system.

Table 2 lists more than 60 instruments that can be used for controlling arrangements at Ukrainian enterprises.

Most of them relate to well-known methods of management arrangements, characteristics of which can be found in many Ukrainian and foreign publications.

In the market system activities, an objective assessment of the financial security level of an enterprise becomes of special importance. A large number of in-depth analysis and rapid analysis techniques based on the use of absolute and relative indicators have been developed for its determination. Such techniques allow you to identify problem areas in the enterprise and investigate the reasons that led to them, but do not provide an opportunity to make substantiated conclusions about its level of financial security in general.

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Table 2

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Mo

Tools of controlling
Tool
or Bay analysis

No.	Tool
1	Make or Bay analysis
2.	Analysis of bottlenecks
3.	ABC analysis
4	Break-even point analysis
5	Analysis of the product life cycle
(Analysis of enterprise efficiency
6	(accounting of investments)
7	Economic analysis
8	Competition analysis
9	Market vulnerability analysis
10	Margin Analysis
11	Analysis of weak and strong points
12	Opportunity analysis
13	Analysis of sales volumes
14	Analysis of deviations
15	Portfolio analysis
16	Potential analysis
17	Analysis of the threshold of profitability
18	Analysis of discounts
19	Regression analysis
20	Risk analysis
21	Network analysis
22	SWOT analysis
23	Time series analysis
24	Cost analysis
25	Analysis of the order size
26	XYZ analysis
27	Non-cost analysis
28	Benchmarking
29	Strategic balance
30	Budgeting
31	Brainstorming
32	CIM
33	Cause and effect diagram
34	Decision tree
35	Just in time
36	Gemba
37	Kanban
38	Kaizen
39	Short-term record of results
40	Experience curve
41	Lean Management
42	Delphi method
43	The method of moving averages
44	Methods of stock optimization

47	Optimization of sales		
48	Optimization of order size		
49	Goal planning (multi-purpose		
49	programming)		
50	Mathematical programming		
51	Cost accounting (planned, actual,		
31	permanent, variables, etc.)		
52	Probability theory		
53	Mathematical statistics		
54	Reengineering of an existing system		
55	Timely warning systems		
56	Target Costing		
57	The method of "scripts"		
58	Time Based Management		
59	Gantt chart		
60	Total Quality Management		
61	Activity Based Management		

The analysis of scientific publications and practices of domestic enterprises on the analysis of financial security makes it possible to state that at present, there is no sufficiently effective method for assessing the level of financial security of an enterprise. At the same time, the results of the development of new techniques by foreign researchers can not be used by domestic enterprises, which is conditioned by the inability of developed models to provide an adequate assessment of the safety of those enterprises that operate in conditions that are different from the conditions for which model parameters were determined. Therefore, it is quite logical to focus on contemporary national research in the field of financial security analysis controlling in order to find new approaches to assessing the level of financial security of an enterprise that would take into account the peculiarities of the functioning of Ukrainian enterprises.

In other words, when using foreign methods of assessing and controlling the level of financial security in Ukraine, one can face a sufficiently large number of problems, which is why Ukrainian scientists have a task to improve the methods and adapt them to national conditions of management.

Let us consider possible directions of controlling methods perfection for evaluation of the financial security state of an enterprise. In order to obtain an adequate assessment of the level of financial security of the enterprise, it is

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Spot models (scoring)

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advisable to compare the financial indicators characterizing the activity of the enterprise, not with the normative values that are developed for foreign economic conditions, but with:

- average values of similar indicators, calculated for the aggregate of enterprises in each industry, which produce the bulk of its products;
- values of the indicators recommended in the works of Ukrainian researchers, which meet the requirements of safe functioning;
- indicators of the activities of the best enterprises, etc.

This comparison shows whether the value of the relevant indicator for one or another enterprise is above the average Ukrainian level, or lower than it; the hitting of certain indicator values into certain ranges is estimated, as recommended by Ukrainian analysts.

In connection with the foregoing, we consider it necessary to use the values of the coefficients calculated for 60 enterprises in 6

different types of the sphere of material production of Ukraine.

This measure will make the assessment of the level of financial security more precise, and that reflects the real conditions of functioning of Ukrainian enterprises in the sphere of material production.

In addition, we consider it necessary to improve the methodology for assessing the financial security level of an enterprise in the sphere of material production by selecting such a list of indicators-components of the integrated assessment that would best characterize the key areas of its activities.

As a basis for improvement, we will take the method by Krakos Yu.B. and Razgon R.O. For clarity of the proposed changes, we submit information in the form of a table (Table 3). In the group of solvency indicators, the coefficient of maneuverability of current assets was attributed to a group of indicators of financial firmness and replaced by the coefficient of loss of solvency in the complex index of solvency assessment.

Table 3 Forecasted methodology for assessing the financial security level of an enterprise in comparison with the method by Krakos Yu.B. and Razgon R.O.

Methods by Krakos Yu.B. and Razgon R. O.	Proposed methods	
1	2	
1. Complex index of management assessment:	1. Complex index of enterprise profitability	
- profitability of assets;	assessment:	
- profitability of own capital;	- profitability of assets;	
- total return on sales by gross profit;	- profitability of own capital;	
- profitability of products.	- total sales profitability;	
	- profitability of products.	
2. Complex index of solvency assessment and financial	2. Complex index of solvency assessment of the	
firmness:	enterprise:	
- coefficient of current liquidity;	- coefficient of current liquidity;	
- coefficient of absolute liquidity;	- coefficient of absolute liquidity;	
- ratio of payables and receivables;	- ratio of payables and receivables;	
- coefficient of maintenance of own working capital;	- coefficient of maintenance of own working capital;	
- coefficient of maneuverability of own capital.	- coefficient of loss of solvency.	
3. Complex index of business activity:	3. Complex index of business activity:	
- turnover of assets;	- turnover of assets;	
- turnover of fixed assets;	- turnover of fixed assets;	
- turnover of current assets;	- turnover of current assets;	
- turnover of money;	- turnover of money;	
- turnover of own capital.	- turnover of own capital.	

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Table 3 Continuation

- 4. Complex index of market stability:
- coefficient of autonomy;
- coefficient of financial risk;
- coefficient of maneuverability of current assets;
- coefficient of assets mobility;
- index of fixed assets.

- 4. Complex index of financial firmness:
- coefficient of autonomy;
- coefficient of financial risk;
- coefficient of maneuverability of own capital;
- coefficient of financial firmness.

Such a change is due to the fact that these indicators give an idea of the degree to which the theoretical ability of the business entity to fulfill its obligations in case of occurrence of certain negative events, that is it gives a general description of its protective financial reserves. What, in our opinion, is very important in the method of assessing the level of financial security of an enterprise.

In the complex index of financial firmness, the following indicators were removed: coefficient of maneuverability of current assets, coefficient of assets mobility, the index of fixed assets. In our opinion, these indicators are not so important to reflect the financial firmness of an enterprise, since the coefficient of maneuverability of current assets is directly related to the cash turnover ratio, and the coefficient of assets mobility is related to the current asset turnover. One of the basic principles for building an effective method for assessing the level of financial security is as follows: "... individual indicators, selected for inclusion in the integral assessment, should not duplicate one another, since this duplication not only complicates the economic substantiation of the results but also can distort them ...". Moreover, these indicators would be more appropriate to attribute to the indicators of assessment of business activity of an enterprise.

As for the complex indicator of investment attractiveness, in our opinion, this group of indicators is not essential for assessing the level of financial security of an enterprise. The net revenue ratio reflects the proportion of net income in gross income that does not provide any information for potential investors, since the difference between gross income and net income is tax payments (VAT, duty, excise, etc.). Thus, this indicator can provide information only on the level of indirect

taxation in the country. For a potential investor, the profitability indicators, that have already been taken into account in the proposed methodology, are more important. As for the net profit per share, it loses its informative value in our country. This is because today too few Ukrainian business entities pay due attention to their shareholders and most companies do not pay dividends at all. Therefore, the use of this indicator in the method of assessing the level of financial security is not feasible.

Instead of the complex index of investment attractiveness, we suggest using a complex index of the company's property status. One of the most problematic indicators of assessing the property situation in Ukraine is the coefficient of depreciation of fixed assets. That is why it is very important for assessing the level of financial security of an enterprise. In addition, it is necessary to include in the methodology the coefficient of renewal of fixed assets, which characterizes the policy of property management of an enterprise. In order to specify these indicators, it is necessary to apply the coefficient of return on fixed assets, since the effectiveness of their use should be evaluated and analyzed when analyzing the state of financial security of an enterprise. In our opinion, the proposed methodology will provide a more accurate and profound assessment of the state of financial security of an enterprise by modern methods of controlling.

Conclusion. The complex structure of the enterprise controlling system must meet all needs, meet the goals and objectives of the particular enterprise and be adapted to its internal and external environment. At the same time, it should be unique and flexible, allowing for any changes that depend on the needs and capabilities of the organization. Each particular organization will have its own the controlling

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system, due to the peculiarities and specifics of each industrial organization, it is impossible to introduce a ready-made model of the controlling system. This is due to its strategy, which is implemented through well-established a organization of internal processes and the optimal formation of an organizational which includes structure. system a controlling. Any transformations in the strategy caused by the market situation determine the need for the reorganization of internal business processes and structures, which leads to the need to tune the current system of controlling. Changes may also be caused by the introduction of new solutions in the field of theory and practice of controlling. As already mentioned, integral controlling an part of is management of financial and economic security of enterprises. Controlling system is necessary to maintain competitiveness, which makes any modern enterprise to improve systems and procedures of its management.

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