ПРОБЛЕМИ ОБЛІКОВОГО ЗАБЕЗПЕЧЕННЯ ФУНКЦІОНУВАННЯ ОРГАНІЗАЦІЙ ТА ІНСТИТУЦІЙНІ ЗАСАДИ ВПРОВАДЖЕННЯ МСФЗ



PROBLEMS OF AN ORGANIZATION AND THE FUNCTIONING OF INSTITUTIONAL FOUNDATIONS OF IFRS IMPLEMENTATION

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ECONOMIC ACCOUNTING MODEL OF VALUE ADDED

Abstract

Introduction. From the point of view of the new institutional theory, the company is a broader concept than economic entity earns income for owners: it is viewed as a social and economic institution whose primary purpose is to contribute to the well-being of society. Institutional theory displays accounting for its social interpretation, explains the reasons for the expansion of the financial statements interested users list and consider the impact of the organization on the basis of the value added, the concept of which is inherently related to the theory of capital.

Purpose is development of methods of economic accounting records, reporting and accounting analysis of value added (as well as other indicators of economic output — intermediate consumption, consumption of fixed capital disposable income of organization) in conjugation with stages of capital transformation, in context of real-cash collateral, as well as from the perspective of a differentiated approach to "filling" economic turnover indicators for the purpose of management at the micro and macro level.

Methods. General scientific method of knowledge, analysis, synthesis, induction, deduction, scientific abstraction, logic synthesis, simulation, comparing, reasoning by analogy, a systematic approach. In our research, we decompose a new object of accounting (value added) to the stages of movement of capital. Our proposed method of accounting and financial reporting can track the formation and movement of value added along the entire chain of transformation of capital in the context of its cash collateral. We have developed the system of organization efficiency indicators based on value added.

Results and discussion. The development of accounting techniques of economic accounting records, reporting and accounting analysis of value added (as well as other indicators of economic output — intermediate consumption, consumption of fixed capital disposable income of organization) in conjugation with stages of capital transformation, in context of real-cash collateral, as well as from the perspective of a differentiated approach to "filling" economic turnover indicators for the purpose of management at the micro and macro level, which significantly expands the information base of financial management and enables us to establish convergence in the management of financial flows in various economic management levels.

Key words: capital, indicators of economic turnover, value added, organization's disposable income, monetary backing, accounting, accounting analysis.

Introduction. In recent years there has been an increased interest in the usage of such an *indicator of economic turnover* as **value added** in analysis practice of organizations. From our point of view, such trend seems to be quite relevant, as this indicator simultaneously meets two requirements: 1) it adequately reflects financial results of a business as a process of tangible and human capital interaction, and therefore harmonizes interests of the business process participants, who directly create value added and have direct financial stake in business (owners and employees – business agents) [1]; 2) it acts as a link in evaluating economic development rates of individual organizations and national economy on the whole, which allows to establish a direct system continuity in managing financial flows at micro- and macro-level. However, especially in the Republic of Belarus, there is an obvious lack of theoretical and methodological elaboration into aspects of accounting and analysis of value added. In our opinion, the major shortcoming of the approaches suggested in scientific publications is that value added is not subject to system accounting, but is calculated on the basis of accounting and statistical reports. The latter, from our point of view, is not acceptable at all, since it is not a secret that when compiling data of statistical reports organizations frequently disregard the accuracy requirement in favor of the speed of compilation. In addition, at present nobody is satisfied with generalized information in reports. Under swift advance in information technologies that allow swift transfer of business information at any distance, even monthly financial statements are not prompt enough; consequently there is a need for improving accounting techniques, reconsideration of particular elements of accounting procedures, ways to system atize and generalize accounting information as well as the methods of its analysis. Thereupon we suggest developing a model of economic accounting that includes "in-built" elements of analysis (e.g. analyzing monetary backing of assets, elements of owner's equity, income, expense), that directly uses the data of entries (accounting analysis) [5]. The model concerned is based on objective laws of capital turnover, personification of financial interests of business participants, fundamental accounting equation (Assets_{ti} = Owner's Equity_{ti} +Liabilities_{ti} + Income Δt - Expense Δt), and also the need of obligatory accounting and analysis of real monetary backing of major economic turnover indicators and financial results of organization's activity.

Analysis of recent researches and publications. Fundamental contribution to the research into the value added nature was made by such outstanding representatives of classical political economy as A. Smith ("An Inquiry into the Nature and Causes of the Wealth of Nations", 1776) [8], J.B. Say ("A Treatise on Political Economy; or the Production, Distribution, and Consumption of Wealth", 1803), D. Ricardo ("Principles of Political Economy and Taxation", 1817) [6], K. Marks ("Capital", 1867-1910) [3], A. Marshall ("Principles of Economics", 1890-1891), J.B. Clark ("The Distribution of Wealth: A Theory of Wages, Interest and Profits", 1899) et al.

Among the scientific studies, touching upon the issue of calculation and analysis of value added, published over the recent decade in Russia the following works are worth mentioning: M.S. Abryutina ("From Accounting to National Economic Accounting System", 2001; "Financial Analysis of Business Activity", 2002; "Express-Analysis of Financial Statements", 2003;

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"Economic Analysis of Commodity Market and Trade Activity", 2010; "Financial Analysis", 2011); A.V. Grachev ("Analyzing and Managing Enterprise's Financial Stability. From Bookkeeping to Economic Accounting", 2002; "Enterprise's Financial Stability: Analysis, Assessment and Management", 2004; "Enterprise's Financial Stability: Criteria and Methods of Assessment in Market Economy"; "Enterprise's Financial Stability: Criteria and Methods of Assessment in Market Economy", 2008). A.V. Grachev in his research "Analysis and Managing Enterprise's Financial Stability. From Bookkeeping to Economic Accounting" for the first time uses the concept of economic accounting [2]. However, the author treats economic accounting or accounting for economic potential as "analysis of financial and economic solvency", moving its major objects, i.e. the indicators of economic turnover that should provide consistency of information at micro- and macro-level (including the added value) beyond the traditional accounting system and delegating the functions and goals of analysis to economic accounting based on accounting, tax and statistical reporting data. Such static discrete approach considerably reduces promptness and relevance of receiving data.

Fundamental contribution to the development of various aspects of accounting, analysis and taxation was made by such contemporary Russian scientists as L.V. Popova, I.A. Maslova, B.G. Maslov, E.L. Malkina, D.S. Tchaikovsky. Among their scientific studies the following should be distinguished: Maslova I.A. "Value Formation and Distribution in Accounting and Analysis System during Transition to IFRS", 2005; Maslova I.A., Maslov B.G., Malkina E.L. "Accounting for Formation and Actualization of Product Value at Micro- and Meso-Level", 2007; Popova L.V., Maslova I.A., Maslov B.G. "Formation of Value and Taxation Indicators in Accouting and Analysis System: Theory and Methodology", 2008; Popova L.V., Maslova I.A., Maslov B.G. "Theory and Methodology of Value Formation in Accounting, Analysis and Taxation System in the Period of Harmonization and Adaptation to International Standards", 2008; Popova L.V., Maslov B.G. "Theory and Methodology of Forming Accounting, Analysis and Taxation System under Globalization of Economic Processes and Transition to International Financial Reporting Standards", 2008; Popova L.V., Maslov B.G. "Theory and Methodology of Interaction System of Forming Accounting, Analytical and Tax Indicators under Global Highly Integrated Economic System", 2008; Popova L.V., Maslov B.G. "Accounting, Taxation and Financial Policy at Macro-, Meso- and Micro-Levels: Theory and Practice", 2009; Tchaikovsky D.V. "Harmonizing Accounting, Analytical and Statistical Data", 2008; Tchaikovsky D.V. "Formation of Value Added Taxation System under IFRS at Macro-Level", 2009; Tchaikovsky D.V. "Theoretical Principles of Added Value Formation at Micro- and Macro-Levels", 2010.

Giving credit to the above mentioned scientists for their contribution to the development of accounting and analysis of value added at all levels of economy management, it should be mentioned that a number of significant aspects stay beyond the area of their research, in particular:

- adequate reflection in accounting system of the whole chain of value added formation and distribution in the context of capital transformation (turnover) stages, its determinant, real monetary backing, as well as differentiated approach to the contents of this indicator from the point of view of management needs at micro- and macro-levels;
 - accounting analysis of value added, relevant indicators of economic turnover, as well

as financial results of business operation from the point of view of personified approach to interests of its participants.

In our opinion the major shortcoming of the approaches suggested in most scientific publications is that added value is not subject to system accounting, but is calculated on the basis of accounting and statistical reporting data. The latter, from our point of view, is not desirable as it is not a secret that in forming statistical data often organizations neglect accuracy for the sake of quick compilation of relevant reports. Moreover, under conditions of fast development of information technologies that allow transferring business information immediately at any distance, even monthly financial statements are not timely enough, and consequently there is a need to improve accounting procedures, reconsider particular accounting techniques, ways of systematization and generalization of accounting information as well as its analysis techniques. Thereupon we suggest such a model of accounting for the non-financial sector that includes analysis elements, directly using the information of entries, i.e. the so called accounting analysis. This accounting pattern is based on objective laws of capital turnover, personification of financial interests of business agents and contractors, essential accounting dynamic equation, as well as the need for obligatory accounting and analysis of real monetary backing of major economic turnover indicators and financial results of organization's activity.

Purpose is development of methods of economic accounting records, reporting and accounting analysis of value added (as well as other indicators of economic output — intermediate consumption, consumption of fixed capital disposable income of organization) in conjugation with stages of capital transformation, in context of real-cash collateral, as well as from the perspective of a differentiated approach to "filling" economic turnover indicators for the purpose of management at the micro and macro level.

Methods. The essence and novelty of the techniques developed is the successive disclosure of the information about value added and other indicators of economic turnover (intermediate consumption, fixed capital consumption), as well as the financial results of economic activities within the organization's accounting-analytical system: a) together with the steps of capital transformation (e.g. identification of the non-produced value added (in the net cost of work in process), produced but unsold value added (in the net cost of finished units in stock), value added sold (in the income earned) and value added sold and backed by money (in the income earned in money); b) in terms of the real monetary backing of indicators; c) based on the differentiated approach to the contents of basic indicators of economic turnover required for managerial purposes at the micro and macro-levels.

The developed techniques are computerized in the "Accounting" application on the basis of "1C:Enterprise 8.2" platform.

The economic turnover indicators required for the above-mentioned methods are elements of capital (intermediate consumption, fixed capital consumption, value added), that characterize cost flows of economic turnover and provide the information links for managing them at micro and macro-levels.

Intermediate consumption is the cost of production inputs used up in the business process.

Consumption of fixed capital is a partial cost of means of production used up in the

business process.

Value added is the value newly produced by a business.

Let us specify the list of indicators of economic turnover for the purposes of economic accounting and accounting analysis at the micro-level.

Intermediate consumption includes material costs, non-material services (payment for communication and computer center services, for product quality control, research and development, payments to educational institutions involved in employee training and included in the product costs, payments to healthcare institutions for medical checkup, vaccination, etc., rental and utilities payments, payments for legal, marketing services, licensing, product certification, payments for fire prevention and security, copying, ticket booking, etc.); business travel expenses including cost of travelling and residence, payments for one-off jobs and to freelancers.

In contrast to the approach used in the national economic accounting (NEA), we suggest excluding payments for borrowed capital (loan interest) from intermediate consumption for managerial purposes at micro- and macro-levels because this capital takes an equal part in creating value added along with equity capital, which means that interest payments on loans should be included in the value added.

Consumption of fixed capital includes depreciation of fixed assets and intangible assets charged during the current fiscal year. The suggested method presumes that fixed capital indicator for financial management should be considered separately from the intermediate consumption or value added.

For the national bookkeeping purposes this research has developed a special method of reporting, which includes making special adjustments to the value added in accordance with the NEA requirements.

Value added as an object of economic accounting for managerial purposes has a double nature: firstly, its size embodied in current assets is the sum of expenses incurred (salaries and social payments in the cost of unfinished products and inventories), which is expected to turn into profits (when the finished products are sold); secondly, value added embodied in the funding source of assets constitutes the past time profits, that will partially turn into expenses (included in accounts payable connected with salaries).

At the production stage at every single instant one part of the created value added is embodied in the unfinished product, and another is embodied in the finished product. As the owners' profit is added to the newly created value only at the instant of selling, the value added at the production step includes only wage costs. Wage costs are integrally connected with social payments and health insurance payments the amount of which depends on the wages of an employee of particular category. Hence these payments should also be included into value added.

Thus, the suggested techniques require that the analytical accounting for income and expense accounts, finished products and costs should be arranged in such a way as to generate the information in conformity with the economic turnover indicators and their monetary backing. The same principle should be used for arranging the information on those accounts that contain separate objects continuously used in creating the elements of economic turnover indicators (inventory accounts, fixed assets, intangible assets, wage accounts, etc.)

Results. Let us list the mandatory criteria of clusterization for analytical accounting in the framework of the suggested method (in addition to the criteria to be observed to obtain relevant information for other management purposes, different from managing the major indicators of economic turnover): 1) according to economic turnover indicators (for the accounting units comprising value added, intermediate consumption and fixed capital consumption); 2) by individual items that give grounds for forming cost and expense components of economic turnover indicators (e.g. source documents for calculation of payments to contractors); 3) in terms of monetary backing; 4) by kinds of products (services).

Below the practical implementation of the given methods is described in brief.

Every item in the "Materials" stock-list in the accounting application has its unique code. Every analytical account for accounts like "Materials", "Primary production", "Finished goods", "Operating income and expenses", etc. is related to the corresponding stock item code in the "Materials" directory.

If another lot of materials is delivered, an accountant is to make an entry to capitalize its cost (presented in a simplified way): Debit 'Materials'/backed by accounts payable' – Credit 'Payments to suppliers and contractors'.

On paying to the supplier an accountant fills in a special line for the 'Bank statement' in the application which displays the cash flow in the bank account. Every line of the statement contains a different subaccount in conformity with the purpose of payment. A subaccount should contain the information about the cash flow source documents: a receiving report, report of completion, business account, etc. While entering the corresponding line of the 'Bank statement' the application accesses the source document, showed in subaccount.

In case of full amount payment for the delivered materials indicated in the source document, the app matches the subaccount balances to the code corresponding to the code of stock-list item marked in this document in the following sequence: 1) "Operating income and expenses" (and other accounts of income and expenditure), 2) "Finished goods", 3) "Primary production" (and other cost accounts), 4) "Materials", i.e. in the sequence "expenses – costs – assets." Suppose that after the materials were received there were no changes in the corresponding stock-list directory line. Then alongside the entry reflecting the transfer of funds to the supplier, the following entry should be made to post under the cost of materials: Debit "Materials/Paid" – Credit "Materials/Backed by accounts payable".

If the changes in the directory occurred before the payment was made, an accountant should make a similar entry "Paid" and "Backed by accounts payable" in sub-accounts of the proper accounts in the sequence "expenses – costs – assets ."

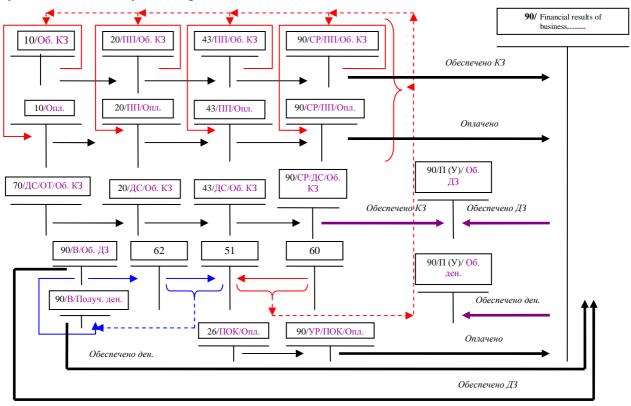
If the payment for the delivered materials was not made in full amount, the app will determine the so-called "fraction of the cost" for each commodity item in a credit document, then distribute the amount of payment according to the items in proportion to the calculated share and finally perform the posting to subaccounts "Paid" and "Backed by accounts payable" of the appropriate accounts in the sequence "expenses – costs – assets."

Value added of sales (or the financial results of a business from the point of view of its agents) is revealed on the so-called screen sub-accounts "Value added of sales" and "Financial results of business" specially introduced for this purpose on "Operating income and expenses" account. In order to do it, the revenue (in terms of monetary backing level) is

compared to the total value of intermediate consumption and consumption of fixed capital (also in terms of monetary backing). The difference between revenue and the sum of intermediate consumption and consumption of fixed capital is recorded under the "Operating income and expenses" account: Debit subaccount "The financial results of business" - Credit subaccount "Value added of sales".

Profit or loss from current business activities can be found by comparison of value added of sales (value added in revenues) and value added as part of the full cost of sales on the "Profit (loss) from sales" subaccount of the "Operating income and expenses" account.

Figure 1 shows a scheme of the process of the value added formation and accounting analysis of its monetary backing.



Flows of Economic Accounting Data

Accounting analysis of indicator monetary backing

ПП – intermediate consumption; ПОК – consumption of fixed capital; ДС – Value added; Об. КЗ, Обеспечено КЗ – backed by accounts payable; Об. ДЗ, Обеспечено ДЗ – backed by accounts recievable; Получ. ден. – received in money; Обеспечено ден. – backed by money; Опл., Оплачено – paid; ДЗ – accounts receivable; КЗ – accounts payable; CP – cost of sales; YP – management expenses; Π (У) – operating profit (loss); 10 – "Materials" account; 20, 26, 43 – accounts of production cost and finished products; 51 – account of cash assets on the bank account; 60, 62 – accounts payable and receivable; 90 - "Operating income and expenses" account

Fig. 1. Procedures of Recording Formation and Accounting Analysis of Value Added Monetary Backing

The source: Developed by the authors

Table 1 represents the general scheme of data accumulation on "Operating Income and Expense" account (before taxes).

Table 1

The scheme of accounting data accumulation on the "Operating income and expense" account

"Operating Income and Expense" Account							
DEBIT					CREDIT		
Cost of sales	Paid Backed by accounts payable	Intermediate consumption in cost of sales	Product A		Received in cash		Product A
			Product B	Sales			Product B
		consumption of fixed capital in cost of sales	Product A	proceeds	Backed by accounts receivable		Product A
			Product B Product				Product B
		Value added in cost of sales Intermediate consumption in	A Product				
			B Product				
		cost of sales backed by accounts payable	A Product				
		Consumption of fixed capital in cost of sales backed by accounts payable	Product A				
			Product B				
		Value added in cost of sales backed by accounts payable	Product A				
			Product B				
Management expenses	Paid	Intermediate consumption in management expenses paid		Õ			
		Consumption of fixed capital in management expenses paid					
		Value added in management expenses paid Intermediate consumption in management					
	Backed by accounts	expenses backed by accounts payable Consumption of fixed capital in					
	payable	management expenses back accounts payable					
Sales expenses	Paid	Value added backed by accounts payable Intermediate consumption in sales					
		expenses paid Consumption of fixed capital in Sales expenses paid					
		Value added in sales expenses backed by accounts payable					
	Backed by accounts payable	Intermediate consumption in sales expenses backed by accounts payable					
		Consumption of fixed capital in sales expenses paid					
		Value added in Sales expenses backed by accounts payable					
	Backed by cash				Backed by cash		by cash
"Financial results of business"	I	Backed by accounts receivable		Value add sales	led of Back		ed by ounts ivable
Profit from current activities	Backed by cash Backed by accounts receivable			Loss from current activities			

The source: Developed by the authors

The main research findings are the following:

- 1. The list of objects of bookkeeping records, financial reporting and accounting analysis has been expanded by including economic turnover indicators, in particular, a) the significance of value added is proved as an important object of accounting, financial reporting and accounting analysis, the disclosure of information about this object in microanalysis solving two problems simultaneously: firstly, it helps to reflect in an appropriate way the financial performance of a business from the point of view of its agents (owners and employees), and consequently to harmonize their interests; secondly, it helps to provide the continuity in financial flow management at the micro- and macro-level; b) the significance of disposable income is grounded as an important analytical indicator, reflection of which in financial reporting will provide the owners with the data about capital maintenance and the amount of increase in business economic potential (in terms of owners' equity).
- 2. Procedures for consecutive disclosure of the information about value added and other economic indicators in the framework of organization's accounting system: a) in accordance with capital transformation steps; b) in accordance with real monetary backing; c) based on the differentiated approach to the formation of basic economic indicators depending on the managerial needs at the micro- and macro-level, which allows, firstly, to form an absolutely new body of data for deeper analysis of the business system operation and hence helps to implement managerial functions more efficiently; secondly, provide coordination in the financial flow management at the micro- and macro-level.

Discussion. The investigation solves the urgent problems which have so far been beyond the scope of organization's accounting and analytical system (primarily because of the absence of a number of accounting objects), in particular, the problem of accounting for value added in contingency with capital movement steps and accounting analysis of its money collateral. The economic significance of the research findings involves the following: the techniques of economic accounting, financial reporting and accounting analysis for formation and distribution of value added and other economic turnover indicators (intermediate consumption, consumption of fixed capital, consumption of disposable income) developed by the authors provide for: a) additional relevant information support for managerial decision-making at the micro-level; b) system continuity with the indicators of the national bookkeeping which allows to calculate gross domestic product in a direct and accurate way.

The social significance of the research findings rests on creation of conditions for the formation of a transparent information base for insuring convergence in managing economic development of individual organizations and the national economy on the whole.

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НОРМАТИВНЕ РЕГУЛЮВАННЯ ТА МЕТОДИЧНІ АСПЕКТИ КОНСОЛІДАЦІЇ ФІНАНСОВОЇ ЗВІТНОСТІ

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METHOD AND LEGISLATIVE REGULATION OF CONSOLIDATION FINANCIAL STATEMENTS

Анотація

Актуальність. Складність економічних зв'язків, яка зростає і породжує потреби різних груп користувачів у достовірній, неупередженість інформації про фінансово-майновий стан та результати діяльності суб'єктів господарювання, знаходять своє відображення у консолідованій фінансовій звітності. Водночас, виникає необхідність розробки методики консолідації фінансової звітності згідно вимог міжнародного та вітчизняного законодавства.

Мета. Метою даного дослідження є висвітлення питань щодо економічної сутності та нормативного регулювання консолідованої фінансової звітності групи підприємств, пошук методик консолідації фінансової звітності та проблеми її складання згідно МСФЗ в Україні.

Методи. Використано загальнонаукові та спеціальні методи, зокрема ретроспективного аналізу, групування, порівняння, наукової абстракції, індукції та дедукції, аналізу і синтезу тощо.

Результати. Автором вивчено стан вітчизняного та міжнародного законодавства з регулювання консолідованої фінансової звітності та перспективи впровадження МСФЗ.

Пропонується внести доповнення щодо методики складання консолідованої фінансової