

SEMINARIO BRASIL AS REPRESENTAÇÕES SOCIAIS NO CONTEXTO DO BRASIL

Revista de Humanidades y Ciencias Sociales

Número Especial Octubre / Diciembre 2019 ISSN 0719-4706

REVISTA INCLUSIONES REVISTA DE HUMANIDADES VCIENCIAS SOCIALES

CUERPO DIRECTIVO

Directores Dr. Juan Guillermo Mansilla Sepúlveda Universidad Católica de Temuco, Chile Dr. Francisco Ganga Contreras Universidad de Los Lagos, Chile

Subdirectores Mg © Carolina Cabezas Cáceres Universidad de Las Américas, Chile Dr. Andrea Mutolo Universidad Autónoma de la Ciudad de México, México

Editor Drdo. Juan Guillermo Estay Sepúlveda Editorial Cuadernos de Sofía, Chile

Editor Científico Dr. Luiz Alberto David Araujo Pontificia Universidade Católica de Sao Paulo, Brasil

Editor Brasil Drdo. Maicon Herverton Lino Ferreira da Silva Universidade da Pernambuco, Brasil

Editor Ruropa del Este Dr. Alekzandar Ivanov Katrandhiev Universidad Suroeste "Neofit Rilski", Bulgaria

Cuerpo Asistente

Traductora: Inglés Lic. Pauline Corthorn Escudero Editorial Cuadernos de Sofía, Chile

Traductora: Portugués Lic. Elaine Cristina Pereira Menegón Editorial Cuadernos de Sofía, Chile

Portada Sr. Felipe Maximiliano Estay Guerrero Editorial Cuadernos de Sofía, Chile

COMITÉ EDITORIAL

Dra. Carolina Aroca Toloza Universidad de Chile, Chile

Dr. Jaime Bassa Mercado Universidad de Valparaíso, Chile

Dra. Heloísa Bellotto Universidad de Sao Paulo, Brasil

CUADERNOS DE SOFÍA EDITORIAL

Dra. Nidia Burgos Universidad Nacional del Sur, Argentina

Mg. María Eugenia Campos Universidad Nacional Autónoma de México, México

Dr. Francisco José Francisco Carrera Universidad de Valladolid, España

Mg. Keri González Universidad Autónoma de la Ciudad de México, México

Dr. Pablo Guadarrama González Universidad Central de Las Villas, Cuba

Mg. Amelia Herrera Lavanchy Universidad de La Serena, Chile

Mg. Cecilia Jofré Muñoz Universidad San Sebastián, Chile

Mg. Mario Lagomarsino Montoya *Universidad Adventista de Chile, Chile*

Dr. Claudio Llanos Reyes Pontificia Universidad Católica de Valparaíso, Chile

Dr. Werner Mackenbach Universidad de Potsdam, Alemania Universidad de Costa Rica, Costa Rica

Mg. Rocio del Pilar Martínez Marín Universidad de Santander, Colombia

Ph. D. Natalia Milanesio Universidad de Houston, Estados Unidos

Dra. Patricia Virginia Moggia Münchmeyer Pontificia Universidad Católica de Valparaíso, Chile

Ph. D. Maritza Montero *Universidad Central de Venezuela, Venezuela*

Dra. Eleonora Pencheva Universidad Suroeste Neofit Rilski, Bulgaria

Dra. Rosa María Regueiro Ferreira Universidad de La Coruña, España

Mg. David Ruete Zúñiga Universidad Nacional Andrés Bello, Chile

Dr. Andrés Saavedra Barahona Universidad San Clemente de Ojrid de Sofía, Bulgaria

REVISTA INCLUSIONES REVISTA DE HUMANIDADES VIENCIAS SOCIAL ES

Dr. Efraín Sánchez Cabra Academia Colombiana de Historia, Colombia

Dra. Mirka Seitz Universidad del Salvador, Argentina

Ph. D. Stefan Todorov Kapralov South West University, Bulgaria

COMITÉ CIENTÍFICO INTERNACIONAL

Comité Científico Internacional de Honor

Dr. Adolfo A. Abadía Universidad ICESI, Colombia

Dr. Carlos Antonio Aguirre Rojas Universidad Nacional Autónoma de México, México

Dr. Martino Contu Universidad de Sassari, Italia

Dr. Luiz Alberto David Araujo Pontificia Universidad Católica de Sao Paulo, Brasil

Dra. Patricia Brogna Universidad Nacional Autónoma de México, México

Dr. Horacio Capel Sáez Universidad de Barcelona, España

Dr. Javier Carreón Guillén Universidad Nacional Autónoma de México, México

Dr. Lancelot Cowie Universidad West Indies, Trinidad y Tobago

Dra. Isabel Cruz Ovalle de Amenabar *Universidad de Los Andes, Chile*

Dr. Rodolfo Cruz Vadillo Universidad Popular Autónoma del Estado de Puebla, México

Dr. Adolfo Omar Cueto Universidad Nacional de Cuyo, Argentina

Dr. Miguel Ángel de Marco Universidad de Buenos Aires, Argentina

Dra. Emma de Ramón Acevedo Universidad de Chile, Chile

CUADERNOS DE SOFÍA EDITORIAL

Dr. Gerardo Echeita Sarrionandia Universidad Autónoma de Madrid, España

Dr. Antonio Hermosa Andújar Universidad de Sevilla, España

Dra. Patricia Galeana Universidad Nacional Autónoma de México, México

Dra. Manuela Garau Centro Studi Sea, Italia

Dr. Carlo Ginzburg Ginzburg Scuola Normale Superiore de Pisa, Italia Universidad de California Los Ángeles, Estados Unidos

Dr. Francisco Luis Girardo Gutiérrez Instituto Tecnológico Metropolitano, Colombia

José Manuel González Freire Universidad de Colima, México

Dra. Antonia Heredia Herrera Universidad Internacional de Andalucía, España

Dr. Eduardo Gomes Onofre Universidade Estadual da Paraíba, Brasil

Dr. Miguel León-Portilla Universidad Nacional Autónoma de México, México

Dr. Miguel Ángel Mateo Saura Instituto de Estudios Albacetenses "Don Juan Manuel", España

Dr. Carlos Tulio da Silva Medeiros Diálogos em MERCOSUR, Brasil

+ Dr. Álvaro Márquez-Fernández Universidad del Zulia, Venezuela

Dr. Oscar Ortega Arango Universidad Autónoma de Yucatán, México

Dr. Antonio-Carlos Pereira Menaut Universidad Santiago de Compostela, España

Dr. José Sergio Puig Espinosa Dilemas Contemporáneos, México

Dra. Francesca Randazzo Universidad Nacional Autónoma de Honduras, Honduras

REVISTA INCLUSIONES REVISTA DE HUMANIDADES VICIENCIAS SOCIALES

Dra. Yolando Ricardo Universidad de La Habana, Cuba

Dr. Manuel Alves da Rocha Universidade Católica de Angola Angola

Mg. Arnaldo Rodríguez Espinoza Universidad Estatal a Distancia, Costa Rica

Dr. Miguel Rojas Mix Coordinador la Cumbre de Rectores Universidades Estatales América Latina y el Caribe

Dr. Luis Alberto Romero CONICET / Universidad de Buenos Aires, Argentina

Dra. Maura de la Caridad Salabarría Roig Dilemas Contemporáneos, México

Dr. Adalberto Santana Hernández Universidad Nacional Autónoma de México, México

Dr. Juan Antonio Seda Universidad de Buenos Aires, Argentina

Dr. Saulo Cesar Paulino e Silva Universidad de Sao Paulo, Brasil

Dr. Miguel Ángel Verdugo Alonso Universidad de Salamanca, España

Dr. Josep Vives Rego Universidad de Barcelona, España

Dr. Eugenio Raúl Zaffaroni Universidad de Buenos Aires, Argentina

Dra. Blanca Estela Zardel Jacobo Universidad Nacional Autónoma de México, México

Comité Científico Internacional

Mg. Paola Aceituno Universidad Tecnológica Metropolitana, Chile

Ph. D. María José Aguilar Idañez Universidad Castilla-La Mancha, España

Dra. Elian Araujo Universidad de Mackenzie, Brasil

Mg. Rumyana Atanasova Popova Universidad Suroeste Neofit Rilski, Bulgaria

CUADERNOS DE SOFÍA EDITORIAL

Dra. Ana Bénard da Costa Instituto Universitario de Lisboa, Portugal Centro de Estudios Africanos, Portugal

Dra. Alina Bestard Revilla Universidad de Ciencias de la Cultura Física y el Deporte, Cuba

Dra. Noemí Brenta Universidad de Buenos Aires, Argentina

Dra. Rosario Castro López Universidad de Córdoba, España

Ph. D. Juan R. Coca Universidad de Valladolid, España

Dr. Antonio Colomer Vialdel Universidad Politécnica de Valencia, España

Dr. Christian Daniel Cwik Universidad de Colonia, Alemania

Dr. Eric de Léséulec INS HEA, Francia

Dr. Andrés Di Masso Tarditti Universidad de Barcelona, España

Ph. D. Mauricio Dimant Universidad Hebrea de Jerusalén, Israel

Dr. Jorge Enrique Elías Caro Universidad de Magdalena, Colombia

Dra. Claudia Lorena Fonseca Universidad Federal de Pelotas, Brasil

Dra. Ada Gallegos Ruiz Conejo Universidad Nacional Mayor de San Marcos, Perú

Dra. Carmen González y González de Mesa Universidad de Oviedo, España

Ph. D. Valentin Kitanov Universidad Suroeste Neofit Rilski, Bulgaria

Mg. Luis Oporto Ordóñez Universidad Mayor San Andrés, Bolivia

Dr. Patricio Quiroga Universidad de Valparaíso, Chile

REVISTA INCLUSIONES REVISTA DE HUMANIDADES V CIENCIAS SOCIALES

Dr. Gino Ríos Patio Universidad de San Martín de Porres, Per

Dr. Carlos Manuel Rodríguez Arrechavaleta Universidad Iberoamericana Ciudad de México, México

Dra. Vivian Romeu Universidad Iberoamericana Ciudad de México, México

Dra. María Laura Salinas Universidad Nacional del Nordeste, Argentina

Dr. Stefano Santasilia Universidad della Calabria, Italia

Mg. Silvia Laura Vargas López Universidad Autónoma del Estado de Morelos, México

CUADERNOS DE SOFÍA EDITORIAL

Dra. Jaqueline Vassallo Universidad Nacional de Córdoba, Argentina

Dr. Evandro Viera Ouriques Universidad Federal de Río de Janeiro, Brasil

Dra. María Luisa Zagalaz Sánchez Universidad de Jaén, España

Dra. Maja Zawierzeniec Universidad Wszechnica Polska, Polonia

> Editorial Cuadernos de Sofía Santiago – Chile Representante Legal Juan Guillermo Estay Sepúlveda Editorial

Indización, Repositorios y Bases de Datos Académicas

Revista Inclusiones, se encuentra indizada en:





BIBLIOTECA UNIVERSIDAD DE CONCEPCIÓN



CUADERNOS DE SOFÍA EDITORIAL

ISSN 0719-4706 - Volumen 6 / Número Especial / Octubre - Diciembre 2019 pp. 244-256

FINANCIAL ANALYSIS IN BUDGETARY INSTITUTIONS

Ph. D. Larisa Nikolaevna Gerasimova

Moscow State University of Civil Engineering (National Research University), Russia 22969@mail.ru

Ph. D. Natalya Nikolaevna Parasotskaya

Institute of Economics and business of the Professional education and investment Fund of the chamber of Commerce and industry of Russia, Russia

natalv@mmti.ru

Ph. D. Vera Valeryevna Dvoretskaya

Financial University under the Government of the Russian Federation, Russia dvoretskaya@mail.ru

Fecha de Recepción: 22 de junio de 2019 - Fecha Revisión: 13 de julio de 2019

Fecha de Aceptación: 28 de agosto 2019 - Fecha de Publicación: 25 de septiembre 2019

Abstract

The article illustrates the relevance of developing new directions in the analysis and performance evaluation techniques aimed at results-based management optimizing the use of budgetary institutions' resources. The assessment of a state institution's financial condition, its financial results, and risks is implemented by analysing the financial and economic activities of the budgetary institution. The article addresses the problem of determining the proper objectives of financial analysis in an institution, along with the sources of information. The authors also assess the priority methods.

Keywords

Analysis - Balance Sheet - Report - Method - Depreciation - Coefficient

Para Citar este Artículo:

Gerasimova, Larisa Nikolaevna; ParasotsKaya, Natalya Nikolaevna y Dvoretskava, Vera Valeryevna. Financial analysis in budgetary institutions. Revista Inclusiones Vol: 6 num Especial (2019): 244-256.

Introduction

In modern economic conditions, the process of deeper introduction of public finance in the economy takes place. This process requires the relevant techniques, extensive authority and versatile functions of state financial control. The possibility of succeeding in the specified directions is associated with achieving the best results while using the least resources. The introduction of international financial reporting standards for the public sector in Russian accounting is aimed at achieving the primary goal – improving the efficient use of state financial and material resources and, accordingly, the effectiveness of state control. In this regard, the comprehensive analysis of economic processes at the level of financial and economic activities of economic entities is of paramount importance. This creates favourable conditions for the development of financial analysis of state institutions activities¹.

Theoretical background

Figure 1 shows a set of public management activities and measures to enhance the effective use of financial resources.



Figure 1 A set of public management activities and measures to enhance the effective use of finance resources

¹ I. M. Dovgalyuk, "Osobennosti pravovykh statusov byudzhetnogo i avtonomnogo uchrezhdenii", Nauka i obrazovanie segodnya, num 12 (2017): 69-71; E. N. Zhavoronkova, "Reforma byudzhetnoi sistemy Rossii na sovremennom etape", Gosudarstvennoe upravlenie", Elektronnyi vestnik, num 43 (2014): 81-94. Available at: http://ejournal.spa.msu.ru/uploads/vestnik/2014/vipusk_43._aprel_2014_g./ekonomitcheskie_voprosi_upra vlenija/zhavoronkova.pdf y G. Miller, Performance Based Budgeting. Routledge. 2018. PH. D. LARISA NIKOLAEVNA GERASIMOVA / PH. D. NATALYA NIKOLAEVNA PARASOTSKAYA

When addressing this issue, it is worth noticing that in the commercial sphere, it is medium-sized and large businesses that engage in financial analysis, since data received from standard forms of financial statements are not enough for managerial decision-making. The established finance analysis process to a certain extent characterizes the maturity of an enterprise. The reorientation from resource management to performance management in the public sector has set the budgetary institution with challenges similar to those facing a regular business. It is important for both the founder and the institution to achieve the goals by rational spending of resources within the permissible risk zone².

Financial analysis allows controlling this through a system of indicators of a budget institution, by comparing their actual values with the planned and similar in type of activity (Figure 2).



Figure 2 Goals and objectives of financial analysis of budgetary institutions

² E. V. Bergal & V. A. Nikonenko, "Risk-orientirovannyi podkhod pri planirovanii control nykh meropriyatii v finansovo-byudzhetnoi sfere", Bukhgalterskii uchet i nalogooblozhenie v byudzhetnykh organizatsiyakh, num 11 (2018); E. F. Tselishcheva, "Analiz effektivnosti byudzhetnykh raskhodov munitsipalnykh uchrezhdenii", Munitsipalnye finansy, num 14 (2014): 40-50 y T. R. Bowen; Y. Chen; H. K Eraslan & J. Zapal, "Efficiency of Flexible Budgetary Institutions", of Journal Economic Theory, Vol: 167(C) (2017): 148-176. Available at: https://doi.org/10.3386/w22457

Methods

Accounting (financial) records are a source of financial analysis (Figure 3).



Figure 3 Reporting structure of a budgetary institution

The list of accounting (financial) statement indicators of a budget institution used for financial analysis includes³:

1) balance sheet indicators (assets, liabilities, net assets). They provide information on the distribution of assets of a budget institution by articles, the need for investment, the ratio of fixed and current assets, along with the amounts of receivables. The analysis of the structure of liabilities, long-term and short-term debt provides important information. The balance sheet formula is presented in Figure 4;



Mathematical definition of the balance sheet

2) indicators of the report on the financial performance that characterize the economic features of revenues and expenses for the reporting period. The main goal of state institutions is not to receive profit, but to control budget funds. Revenues are important for government activities that are wholly or partly funded by consumer fees. However, for activities funded primarily from budgetary allocations, the primary interest is costs;

3) cash flow statement indicators reflecting cash inflows and outflows. This information is of interest to analyse the inflow sources and expenditure during the reporting period;

4) report indicators comparing the approved budget with the budget execution;

PH. D. VERA VALERYEVNA DVORETSKAYA

³ L. N. Gerasimova, Metody upravlencheskogo ucheta (Moscow: Prospekt, 2016); N. G. Ivanova, Gosudarstvennye (munitsipalnye) uchrezhdeniya v usloviyakh reformy byudzhetnogo sektora (St. Petersburg: SPEU, 2014) y S. Y. Platoshechkina, "Ob otsenke effektivnosti ispolzovaniya gosudarstvennykh raskhodov", Audit i finansovyi analiz, num 3 (2015): 136-142.

- 5) explanatory note to the disclosed indicators;
- 6) explanations⁴.

Results

When conducting financial analysis, it is necessary to consider that the indicators presented in the financial statement are interconnected. For example, the depreciation presented in the statement of financial performance compared with the volume of assets from the balance sheet provides information on the write-off volumes and possible investments. The analysis of reporting indicators allows concluding about the proper or inappropriate activities of a budget institution, to decide whether it is possible to trust its leader in the future and to change the direction of its activities.

Let us further consider some analysis methods of financial and economic activities applicable to budgetary institutions.

Ratio analysis method

The coefficients are relative indicators, calculated based on accounting entries. They include the following groups:

Stability ratios (Figure 5, Table 1).



Figure 5 Stability ratios

⁴ L. N. Gerasimova, "Neobkhodimost otrazheniya v bukhgalterskom uchete informatsii nefinansovogo kharaktera", Uchet. Analiz. Audit, num 1 (2015): 77-81; L. A. Krokhmal, "Problemy realizatsii v Rossii gosudarstvennogo zadaniya na okazanie obrazovatelnykh uslug po programmam vysshego obrazovaniya", MIR (Modernizatsiya. Innovatsii. Razvitie), Vol: 7 num 2 (2016): 105-109. Available at: https://cyberleninka.ru/article/n/problemy-realizatsii-v-rossii-gosudarstvennogo-zadaniya-na-okazanie-obrazovatelnyh-uslug-po-programmam-vysshego-obrazovaniya y A. I. Matei & C. Gaita, "Characteristics of Process Management in the Public Institutions in Romania: Comparative Analysis", Procedia Economics and Finance, num 39 (2016): 94-101. Available at: https://ssrn.com/abstract=2810787

Indicator	Criterion	Characteristic	
Financial stability ratio	not lower than 0.5-0.7	At least 50-70 kop. of capital should be allocated per 1 ruble of borrowed funds	

Table 1

Characteristics of the financial stability ratio

The financial stability ratio provides protection against the bankruptcy risk. It is a ratio of capital to borrowed funds (leverage). Limiting the leverage ratio through financial stability contributes to minimizing the risks associated with the generation of losses, early withdrawal of loans by lenders, and cash gaps.

When setting the value of the financial stability standard, it is worth considering that in economic growth, the coefficient may be lower than in a crisis. Industry specifics also affect the standard value: regular cash flow from several independent clients forms the basis for lowering the indicator, and on the contrary, irregular receipts, high concentration of revenue on large customers are grounds for tighter conditions and higher indicator. Depending on the macroeconomic situation and the type of institution activity, the ratio may vary from 0.2 to 1.

Example 1. Let us calculate the financial stability ratio of an enterprise based on the balance sheet presented in Table 2.

Balance sheet	Amount,	thousand
	rubles	
Cash	2,000	
Current assets (excluding cash)	16,000	
Fixed assets	12,000	
Total assets	30,000	
Capital (equity)	10,000	
Short-term liabilities	14,000	
Long-term liabilities	6,000	
Total liabilities	30,000	

Table 2 Notional balance sheet of an enterprise

 $R_{\text{fin. stab.}} = (10,000 / (14,000 + 6,000) \text{ thousand rubles}) \times 100\% = 50\%.$

Conclusion: The ratio is in the acceptable risk zone.

A budgetary institution interested in increasing its budget revenues may use the concept of cost of capital for the following purposes:

- to calculate the alternative use of the property (for example, which is more profitable – to operate real estate and spend money in extrabudgetary activities or to lease property and place funds on deposit);

- to access the effectiveness of bank loans.

Liquidity ratio (absolute liquidity, urgent liquidity, current liquidity).

The liquidity of a budgetary institution is the ability to make timely payment of monetary obligations of the federal budget at a certain point in a financial year.

To calculate the liquidity of cash in the economic sphere, one can use such indicators as quick, current and long-term liquidity ratios. However, the traditional method of calculating the liquidity ratio is not suitable for public finance. It is worth noticing that in Russia the budget is implemented rather unevenly. This is mainly because most contracts payments are made at the end of the year. Moreover, there is a practice of developing significant budget funds at the end of the year.

Considering the specifics of budgetary institutions, one can use the working capital ratio (WCR) to calculate the liquidity ratio:

 $\begin{array}{l} R_{liq} = CB_{kg} \,/\, (1/12 \; E) \,+\, (1/12 \; P), \\ \text{where } CB_{kg} \; \text{refers to cash balance at the reporting date;} \\ 1/12 \; \text{is the WCR rate;} \\ E \; \text{refers to the federal budget expenditures for the corresponding year;} \\ P \; \text{refers to the payments from sources of financing the federal budget deficit.} \end{array}$

Net asset value method

To calculate the efficiency of using net assets of a budget institution, one needs to decide on the funds attributed to this category of assets. The financial result listed in the balance sheet liabilities forms the assets working in extrabudgetary activities.

As for the founder's funds, they participate in both major financial and extrabudgetary activities. Budgetary institutions can fully take them into account when calculating the net assets or allocate some conditional part of the founder's funds involved in extrabudgetary activities. One can use income or another more suitable indicator (salary rate, floor space) as an indicator to distinguish the founder's funds between the major financial and extrabudgetary activities. It is also possible to use the procedure established for calculating the ratios of paid activity.

Example 2. Based on the balance sheet of a budgetary institution, let us determine the size of net assets, provided that the assets are not divided between the major financial and extrabudgetary activities (Table 3).

	Balance sheet account	Total, thousand roubles
Assets		
1	Residual value of tangible assets	199,518
2	Residual value of intangible assets	184
3	Inventories	13,792
4	Investments in nonfinancial assets	2,362
5	Production costs	580
Total nonfir	ancial assets	216,436
6	Monetary resources	161,072
7	Income Calculations	-5,614
8	Calculations on advances paid	22,740
9	Calculations with accountable persons	108
10	Other accounts receivable	-179,920

10.1	Calculations for VAT tax deductions	1,374
10.2*	Settlements with the founder	-337,294
10.3*	Depreciation of assets of particular value	156,000
10.4	Residual value of assets of particular value	-181,294
Total financial assets -1,614		-1,614
Balance		214,822
Liabilities		
11	Settlement of commitments	1,266
12	Settlements for payments to the budget	1,220
13	Other settlements with creditors 44	
Total liabiliti	es	2,530
14	Financial results	212,292
Total financial results 212,292		212,292
Balance		214,822

^{*} Data in lines 10.2 and 10.3 are not included in the balance sheet currency

Table 3

Notional balance sheet of a budgetary institution

Net assets are calculated as follows:

NA = (212.292 + 181.294) thousand roubles = 393,586 thousand roubles

When assessing the effectiveness of a budgetary institution, it is necessary to take into account all funds involved in income-generating activities: the founder's and the institution's own funds.

Particular attention should be paid to assessing the financial stability of a budgetary institution: compared to commercial organizations, the situation here looks different.

Example 3. Based on the balance sheet of a budgetary institution, let us calculate the financial stability ratio (data in Table 3):

 $R_{\text{fin. stab.}}$ = 212,292 thousand roubles / (2,530 + 5,614) thousand roubles \times 100% = 2,607%.

The capital exceeds the liabilities by 26 times. This fact indicates an extremely high security of obligations by the own funds of a budgetary institution due to their low value.

Let us examine the structure of the net assets of a budgetary institution. Net assets and net equity represent equity, respectively, for assets and liabilities. As a rule, net assets are not separated by items in the assets of the balance sheet – only their total value is calculated. At the same time, based on the conditions of economic feasibility, when the capital primarily includes low-liquid assets, and lastly the money, their conditional separation is possible. Indeed, the funds of creditors will first be charged from the institution accounts, and only then from less liquid assets.

Example 4. Based on the balance sheet (Table 3), let us disclose the structure of net assets including the owner's equity.

Net assets amount to 393,586 thousand rubles (Table 4).

Nonfinancial assets within the size of net assets are 216,436 thousand rubles.

Net asset balance = 393,586 - 216,436 = 177,150 thousand rubles.

Calculations within the size of net assets = 22,740 + 108 + 1,374 = 24,222 thousand rubles.

Net asset balance = 177,150 - 24,222 = 152,928 thousand rubles.

Financial resources in net assets = 152,928 thousand rubles.

Net assets	Value, thousand rubles	Share, %
Nonfinancial assets	216,436	55
Calculations	24,222	6
Financial resources	152,928	39
Total net assets	393,586	100

Table 4

The structure of net assets of a budgetary institution including the owner's equity

This structure determines the potential for extrabudgetary activities of budgetary institutions. The net assets structure shows that the institution has everything necessary for the smooth operation (fixed and cash assets).

Example 5. Based on the balance sheet (Table 3), let us disclose the structure of net assets excluding the owner's equity.

Net assets amount to 212,292 thousand rubles (Table 5).

Nonfinancial assets within the size of net assets = 216,436 - 181,294 = 35,142 thousand rubles

Calculations = 24,222 thousand rubles

Financial resources = 152,928 thousand rubles

Net assets	Value, thousand rubles	Share, %
Nonfinancial assets	35,142	17
Calculations	24,222	11
Financial resources	152,928	72
Total net assets	212,292	100

Table 5

The structure of net assets excluding the owner's equity

This structure determines the internal reserves of a budgetary institution in the field of loss coverage. A high proportion of financial resources creates a solid margin in case of unforeseen circumstances.

Degree of Operating Leverage. As an element of financial analysis in budgetary institutions, one can use the degree of operational leverage, the essence of which is that by changing the volume of services provided and the cost structure, it is possible to change the profit value.

This technique is based on the division of costs into conditionally constant and conditionally variable. The operating leverage shows by how many times the rate of change in profit from the provision of services exceeds the rate of change in revenue from the provision of services.

The degree of operational leverage manifests itself in both the major financial and extrabudgetary activities of a budget institution. The financing system through the state (municipal) assignment is a classic reimbursement scheme of fixed and variable costs. Property maintenance costs relate to fixed costs, the value of which is insensitive to changes in the volume of state assignments or additional paid services. In practice, the operating leverage leads to the following results:

1) if the volume of the state assignment (paid activity) increases, in the conditions of constant property maintenance costs, a budgetary institution receives savings (profit);

2) if the volume of the state assignment (paid activity) decreases, in the conditions of constant property maintenance costs, this leads to the over-expenditure (loss) in a budgetary institution.

Today, the use of this technique seems appropriate.

Previously, the degree of operational leverage did not pose a threat to the activities of budgetary institutions, as, firstly, in the conditions of good budget filling, the size of the state assignment was high, and secondly, the founder covered property maintenance costs even if it brought income from the paid activity.

Today the challenge is to prevent the negative side of the operating leverage, which can be achieved either by increasing the provision of paid services of a budgetary institution or by selling assets surplus. Moreover, budgetary institutions must solve this task under adverse macroeconomic conditions (under the reduced purchasing power of the population and business activity of the business sector).

Depreciation analysis. The depreciation of valuable movable and immovable assets of an institution, in respect of which the institution does not have the right of independent disposal, is repeatedly reflected in the balance sheet of a budgetary institution. The depreciation:

- reduces the book value of assets;
- reduces debt to the founder;
- > increases the positive financial result of a budgetary institution.

By reducing the book value of assets by the amount of depreciation, one can calculate the residual value of assets, objectively reflecting its real value, which corresponds to the generally accepted practice of financial reporting.

Although the budgetary institution's debt to the founder for the transferred assets is reflected in the balance sheet, it does not affect the balance sheet currency. When calculating the balance sheet currency, one should consider an indicator reflecting the difference between settlements with the founder and depreciation accrued on valuable assets.

Thus, financial reporting of a budgetary institution implies amortization of the debt to the founder. In this case, settlements with the founder are reflected in the asset balance with a negative sign. By contrast, it should be noted that for commercial institutions, the founders' (participants') contributions are recorded in the liability balance in own funds as equity capital and are not reduced as depreciation on assets is accrued to the authorized capital.

Another characteristic of a budgetary institution balance sheet is the reflection in its composition of a positive financial result of depreciation calculated on valuable assets. This is because budgetary institutions do not pay for the acquisition of these properties and do not have a debt affecting the balance sheet currency.

An example of a balance section of a budgetary institution is presented in Table 6.

Assets		Liabilities	
Balance sheet	thousand roubles	Balance sheet	thous and roubl es
Nonfinancial assets		Financial results	
Book value of valuable assets*	200,000	Financial result of accrued	50,00
Depreciation of valuable assets**	50,000	depreciation of valuable assets	0
Residual value of valuable assets	150,000		
Financial assets			
Settlements with the founder***	-200,000		
Depreciation of valuable	50,000		
assets****			
Residual value of valuable assets	-150,000		

Note: data in lines marked with "*" are not included in the balance sheet currency.

Table 6

Example of a balance section of a budgetary institution

Similar operations in a commercial organization are presented in Table 7.

Assets		Liabilities	
Balance sheet	thousand roubles	Balance sheet	thous and roubl es
Book value of assets [*]	200,000	Authorised capital	200,0
Depreciation of assets	50,000		00
Residual value of assets	150,000		

* Data on book value and depreciation value are not included in the balance sheet currency.

Table 7Notional balance sheet of a commercial organization

The share of accrued depreciation (reflected in the liability side of a balance sheet as a positive financial result) in the balance sheet currency of a budget institution is significant. Since settlements with the founder, reduced by the depreciation amount, are reflected in the assets with a negative sign, they cover the residual value of the valuable assets indicated in the noncurrent assets section.

Thus, there is a mutual absorption of balance sheet accounts, while the residual value of valuable assets has no effect on the balance currency of a budgetary institution. When assessing the balance of a budgetary institution in terms of the rules of commercial organizations, on the one hand, there is an overestimated profit, and on the other hand – an understated asset. When analysing financial activities of a budgetary institution, it is necessary to transform the balance to assess the efforts of a budgetary institution itself and the impact on the financial result of using the owner's equity.

How does one assess a positive financial result in terms of accrued depreciation? Of course, it increases profit; however, it cannot be recognized as received at the expense of labour efforts of a budgetary institution. It is a sort of "gift". However, this profit is quite rightly taken into account when calculating the own funds of a budgetary institution when it is necessary to assess the financial stability (solvency) of an autonomous institution. It is advisable to calculate financial indicators in two sections: with and without accrued depreciation. As for the assets reflected in the asset of a balance sheet, when assessing the effectiveness of extrabudgetary activities, it is possible to divide the assets using the ratio of paid activity.

Conclusion

The above findings lead to the following conclusion:

When assessing the efficiency of using budgetary resources and developing techniques for measuring and creating performance criteria, one should consider not only the economic component linking the volume of works (services), the result with the cost of their provision, but also various other components of efficiency. Financial analysis is intended to ensure an objective assessment of budgetary institution activities. Based on the analysis results, the founder and the director of a budgetary institution make management decisions to ensure the development of an institution. Financial analysis techniques allow comparing the actual values of indicators with those obtained in the context of rationing, previously planned or industry average. Comparative analysis of budgetary institutions does not only allow the founder to monitor subordinate agencies, the analysis results are also taken into account when allocating grants to perform government assignments. Thus, financial indicators reflect the activities of a budgetary institution and its financial situation in a quantitative ratio.

References

Bergal, E. V. & Nikonenko, V. A. Risk-orientirovannyi podkhod pri planirovanii control nykh meropriyatii v finansovo-byudzhetnoi sfere. Bukhgalterskii uchet i nalogooblozhenie v byudzhetnykh organizatsiyakh, 11. 2018.

Bowen, T. R.; Chen, Y., Eraslan, H. K. & Zapal, J. "Efficiency of Flexible Budgetary Institutions". Journal of Economic Theory, Vol: 167(C) (2017): 148-176. Available at: https://doi.org/10.3386/w22457

Dovgalyuk, I. M. "Osobennosti pravovykh statusov byudzhetnogo i avtonomnogo uchrezhdenii". Nauka i obrazovanie segodnya, num 12 (2017): 69-71.

Gerasimova, L. N. "Neobkhodimost otrazheniya v bukhgalterskom uchete informatsii nefinansovogo kharaktera". Uchet. Analiz. Audit, num 1 (2015): 77-81.

Gerasimova, L. N. Metody upravlencheskogo ucheta. Moscow: Prospekt. 2016.

Ivanova, N. G. Gosudarstvennye (munitsipalnye) uchrezhdeniya v usloviyakh reformy byudzhetnogo sektora. Petersburg: SPEU. 2014.

Krokhmal, L. A. "Problemy realizatsii v Rossii gosudarstvennogo zadaniya na okazanie obrazovatelnykh uslug po programmam vysshego obrazovaniya". MIR (Modernizatsiya. Innovatsii. Razvitie), Vol: 7 num 2 (2016): 105-109. Available at: https://cyberleninka.ru/article/n/problemy-realizatsii-v-rossii-gosudarstvennogo-zadaniya-na-okazanie-obrazovatelnyh-uslug-po-programmam-vysshego-obrazovaniya

Matei, A. I. & Gaita, C. "Characteristics of Process Management in the Public Institutions in Romania: Comparative Analysis". Procedia Economics and Finance, num 39 (2016): 94-101. Available at: https://ssrn.com/abstract=2810787

Miller, G. Performance Based Budgeting. Routledge. 2018.

Platoshechkina, S. Y. "Ob otsenke effektivnosti ispolzovaniya gosudarstvennykh raskhodov". Audit i finansovyi analiz, num 3 (2015): 136-142.

Tselishcheva, E. F. "Analiz effektivnosti byudzhetnykh raskhodov munitsipalnykh uchrezhdenii". Munitsipalnye finansy, num 14 (2014): 40-50.

Zhavoronkova, E. N. "Reforma byudzhetnoi sistemy Rossii na sovremennom etape". Gosudarstvennoe upravlenie. Elektronnyi vestnik, num 43 (2014): 81-94. Available at: http://e-

journal.spa.msu.ru/uploads/vestnik/2014/vipusk_43._aprel_2014_g./ekonomitcheskie_voprosi_upravlenija/zhavoronkova.pdf

CUADERNOS DE SOFÍA EDITORIAL

Las opiniones, análisis y conclusiones del autor son de su responsabilidad y no necesariamente reflejan el pensamiento de la **Revista Inclusiones**.

La reproducción parcial y/o total de este artículo debe hacerse con permiso de **Revista Inclusiones**.