ANALYTICAL PROCEDURES USED IN FINANCIAL AUDIT FOR THE VALUATION OF PORTFOLIO PERFORMANCES – CASE OF FINANCIAL INVESTMENT COMPANIES

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ABSTRACT: Conducting financial audit engagements for Financial Investment Companies is based in a significant measure on the conception and performance of analytical procedures that assist the auditor in the process of elaborating general conclusions regarding the performances of the managed portfolios. In connection with the issue of construction a system of indicators for assessing the portfolio performances, we remark the approach from the perspective of portfolio managers, though it is not explored their usefulness as analytical procedures used in a financial audit engagement conducted in investment companies. The approach to scientific research has considered, mainly, the analysis of financial statements published³ by the five Financial Investment Companies in the period 2006-2008, the comparison of portfolio performances in correlation with the reported net asset value, as well as the inspection of trading reports issued by the market operator Bucharest Stock Exchange and analysis reports issued by the Romanian Association of Fund Managers.

Key words: Financial Investment Companies, financial assets, portfolio management, rate of return and risk correlation, analytical procedures, investment decision.

JEL code: M42

The necessity of issuing a system of key indicators for portfolio management

Current activities undertaken by the Financial Investment Companies consist of managing portfolios of financial assets having the structure of capital investments in different financial instruments such as stocks, bonds, bank deposits, deposit certificates and government securities. The construction of a set of indicators for the purpose of measuring portfolio performances for the Financial Investment Companies is subordinated to objectives that define investment strategy and policies, to improve gains related to the sales of stock investments, to increase dividend income related to shareholdings or interest income generated by fixed income instruments and to minimize losses arise from restructuring process by selling non-performing holdings.

Coordinates defining the necessity of elaborating a system of indicators to measure the effectiveness of capital investments managed by the Financial Investment Companies are based upon the following *aims*:

• fast access to information available for the public investors is subject to the degree of informational efficiency of capital markets;

If investors do not consider the information timely and do not react properly, they position themselves outside the market and may lose in relation to the fluctuations of trading prices.

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³ Annual reports published on Financial Investment Companies' official websites and on the market operator Bucharest Stock Exchange official website (www.bvb.ro).

• stock exchange analysis and portfolio management ensure, under the assumptions of efficient market conditions, increased earnings, at least by considerations relating to scale economies;

The cost of market analysis is no different when it refers to a small investment or a large investment, but gains may be significant in the second case, so an active market approach that characterizes institutional investors is imperious necessary.

• an active management style is required taking into account the risk-return criteria, due to the fact that, as a perception, the value of information gained is significantly reduced by the release in the market;

Yet, on the other hand, there is a type of information that has not a wider degree of dissemination (insider information), usually belonging to initiate persons. Institutional investors will overcome the lack of such information through analysis and market research.

• ensuring a balance between profitability and risk associated to financial assets by promoting investment policies of active management style, would create the premises of sustainable growth in value of the managed portfolio and the maximization of shareholders' wealth on a long-term basis.

Analytical procedures for valuating portfolio performances

In the context of the International Auditing Standards, the term "analytical procedures" consist of evaluations of financial information made by a study of plausible relationships among both financial and non-financial data. Analytical procedures include also those investigations, as they need, on the fluctuations or relationships that are discordant compared with other relevant information or which differ by a significant amount relative to the expected. When analytical procedures identify fluctuations or relationships that are not consistent with other relevant information or which differ by a significant amount relative to the expected, the auditor should investigate such differences by questioning the leadership and obtaining adequate audit evidence relevant to the management responses and performing other audit procedures as they are necessary or not in the certain circumstances⁵.

Analytical procedures are designed to analyze the existing correlations, the trends of informational elements analyzed, estimating thus the reasonableness of the transactions and account balances, by using comparisons and various indicators. They are applied beginning with the sequence of planning the audit but also in the final reviewing stage, for the purpose of highlighting the high risk domains, for which the auditor then use more detailed procedures (substantive tests). Conducting analytical procedures involves: determining the scope, forecasting information, comparing information, analyzing results, comparing and determining significant deviations, particularly those unexpected and making changes in audit program. ⁶

To assess the quality of the management activities related to a portfolio of financial assets, the following indicators may be used as analytical procedures for valuating portfolio performance, as they are characterized by a highly level of informational relevancy⁷:

(a) Rate of return on investment transactions: gives an insight into the profitability of conducting transactions with financial instruments in a period examined. Calculation formula is

⁶ T. Dănescu, Financial audit techniques and procedures, Irecson Publishing House, Bucharest, 2007, pp. 138-139.

⁴ ISA 520 *Analytical procedures*, paragraph 4.

⁵ ISA 520 *Analytical procedures*, paragraph 7.

⁷ L. Popa, D. Doruc, *Measurement of performances in the particular case of a portfolio managed by SIF Banat Crişana* and D. Turcaş, M. Urs, Management indicators for a portfolio of financial assets at *SIF Banat Crişana* in the volume of scientific papers issued by Banat-Crişana Financial Investment Company and West University of Timişoara, *Studies and researches communicated at the 3rd Scientific Session "The Capital Market"*, West University Publishing House, Arad, 2005 pp. 178-194.

based on elements quantifying financial efforts and effects associated with acquisition and disposal of equity investments, as it follows:

$$R_{r} = \underbrace{(V + D_{ob}) - (C_{\underline{h}} + C_{\underline{t}})}_{(C_{h} + C_{t})} \times 100, \tag{1}$$

where:

 R_r – rate of return on investment transactions;

V – revenues from financial assets (held or sold);

D_{ob} – interest revenues;

C_h – expenses related to disposal of financial assets;

C_t – expenses related to fees and trading commissions.

Comparing the results obtained for the five Financial Investment Companies, shows that this indicator can vary significantly, depending on the specific investment objectives and the administration policies, as shown in Table. 1.

Table no. 1
Rate of return on investment transactions— accrual accounting approach⁸
(RON)

	SIF Banat Crișana			SIF Moldova		
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Revenues from						
available for sale						
financial assets	62.369.217	62.000.540	79.565.545	32.828.453	36.187.198	46.282.258
Revenues from						
financial assets at fair						
value through profit						
or loss	0	0	0	0	0	0
Revenues from						
disposal of financial						
assets	54.052.762	73.230.681	19.224.303	47.700.647	55.518.113	51.135.627
Interest revenues	4.912.938	6.126.617	6.056.633	6.012.774	3.790.782	4.938.017
Expenses related to						
disposal of financial						
assets	15.332.404	24.301.153	9.215.803	12.516.902	19.558.152	15.872.442
Expenses related to						
fees and trading						
commissions	2.310.807	2.830.851	2.657.610	1.881.634	2.426.194	2.479.020
Rate of return on						
investment	-0	42.4.00		-0-0-		
transactions	587,71	421,00	783,04	501,05	334,38	457,75
		SIF Transilvan		SIF Muntenia		
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Revenues from						
available for sale						
financial assets	34.479.186	39.604.326	45.881.197	35.824.557	38.630.819	44.993.616
Revenues from						
financial assets at fair		_	_		4 000 0 5	
value through profit	0	0	0	2.085.151	1.803.383	3.837.206

⁸ Primary data source: annual financial statements of Financial Investment Companies, published on official websites: http://www.banat-crisana.com (SIF Banat Crişana), http://www.sifm.ro (SIF Moldova), http://www.transif.ro (SIF Muntenia), http://www.sifmuntenia.ro (SIF Muntenia), http://www.sifmuntenia.ro (SIF Muntenia).

or loss						
Revenues from						
disposal of financial						
assets	93.184.141	131.774.066	90.816.065	75.143.698	59.670.381	112.929.190
Interest revenues	3.291.283	8.351.457	4.476.000	52.315	574.959	118.837
Expenses related to						
disposal of financial						
assets	36.911.646	31.449.534	17.346.042	435.392	1.183.014	103.705
Expenses related to						
fees and trading						
commissions	3.289.484	4.804.293	4.106.636	15.989.251	17.549.849	20.496.525
Rate of return on						
investment	227.77	20.5.55		700 (3		(O# O#
transactions	225,75	395,75	558,07	588,63	437,45	685,81
		SIF Oltenia			esults and the	role for audit
Specification	31.12.2006	31.12.2007	31.12.2008	activity:		
Revenues from				Heina this r	ate ac an analy	tical procedure
available for sale		4= 004 000	00.400.640			
financial assets	42.475.288	47.394.282	83.139.643	reflects to the auditor the quality of asset management decisions, helping in drawing		
Revenues from						it the overall
financial assets at fair				_		ojectives and
value through profit or loss	0	0	0	management		ted in each
Revenues from	U	U	U			oany. Financial
disposal of financial				Investment C	Companies reali	zed investment
assets	87.063.780	128.824.758	27.730.349			a high level of
Interest revenues	3.456.229	4.416.306	2.097.336	profitability, average rate of return in the		
Expenses related to	3.430.227	4.410.300	2.071.330			531.52%. In
disposal of financial						, SIF Oltenia
assets	16.483.595	31.669.982	10.820.887			ner investment
Expenses related to						el recorded for %. Susceptible
fees and trading						Banat Crisana
commissions	879.969	1.268.277	682.812			nia (570.63%).
						in portfolio
Rate of return on						corded for SIF
investment						IF Transilvania
transactions	665,94	448,41	882,01	(393.19%).	,	

(b) The weight of listed companies in the portfolios managed: reflect the portfolio quality in terms of liquidity and the possibility of assessing in market values of equity investments. High value of this indicator qualifies for a prudent and efficient portfolio management, at least in terms of reducing investment risk. The relationship for determining the indicator is:

$$P_{\%} = \frac{N_{sl}}{N_{sp}} \times 100, \tag{2}$$

where:

 $P_{\%}$ – weight of listed companies in total companies selected in portfolios;

N_{sl} – number of listed companies or value of stocks held in listed companies;

N_{sp} – total number of companies in portfolio or total value of stock portfolio.

Using tests carried out on information reported for portfolio structures related to the five Financial Investment Companies, data obtained were pooled in Table no. 2.

Table no. 2 Weight of listed companies in total portfolios managed by Financial Investment Companies⁹.

	SIF Banat Crișana			a SIF Moldova		
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Number of listed						
companies	209	143	134	135	129	117
Total number of						
companies in						_
portfolio	434	368	341	279	264	243
Weight of listed	10.16	20.06	20.20	40.20	10.06	10.15
companies (%)	48,16	38,86	39,30	48,39	48,86	48,15
		IF Transilvani			SIF Muntenia	
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Number of listed	100	1.42	120	70	0.6	00
companies	188	143	128	79	86	80
Total number of						
companies in portfolio	324	303	276	269	240	236
Weight of listed	324	303	270	209	240	230
companies (%)	58,02	47,19	46,38	29,37	35,83	33,90
COMMUNICATION					22.02	
companies (70)	30,02		70,50			·
•		SIF Oltenia			ults and the r	·
Specification Number of listed	31.12.2006		31.12.2008	Research res	ults and the r	ole for audit
Specification		SIF Oltenia		Research resactivity: According	to ISA 520	ole for audit Analytical
Specification Number of listed companies Total number of	31.12.2006	SIF Oltenia 31.12.2007	31.12.2008	Research researching activity: According procedures,	to ISA 520 the auditor of	ole for audit Analytical can use this
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res activity: According procedures, indicator as a	to ISA 520 the auditor con analytical pro	Analytical can use this occdure for an
Specification Number of listed companies Total number of	31.12.2006	SIF Oltenia 31.12.2007	31.12.2008	Research res activity: According procedures, indicator as a entity in given	to ISA 520 the auditor con analytical pronouncing circumstance,	Analytical can use this occdure for an in relation to
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	According procedures, indicator as a entity in given other entities	to ISA 520 the auditor con analytical pro- n circumstance, of comparable	Analytical can use this occdure for an in relation to e size in the
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	According procedures, indicator as a entity in give other entities same activity	to ISA 520 the auditor on analytical pro- n circumstance, of comparable sector. The pro-	Analytical can use this ocedure for an in relation to e size in the purpose is to
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	According procedures, indicator as a entity in give other entities same activity obtain an unc	to ISA 520 the auditor of analytical pro- of comparable sector. The plerstanding of the	Analytical can use this ocedure for an in relation to e size in the purpose is to the objectives
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	According procedures, indicator as a entity in give other entities same activity obtain an uncassociated w	to ISA 520 the auditor of analytical pro- n circumstance, of comparable sector. The plerstanding of with portfolio	Analytical can use this ocedure for an in relation to e size in the purpose is to the objectives management
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	According procedures, indicator as a entity in give other entities same activity obtain an uncassociated wastrategy. The	to ISA 520 the auditor of analytical pro- of comparable sector. The plerstanding of the	Analytical can use this ocedure for an in relation to e size in the purpose is to the objectives management this indicator
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res	to ISA 520 the auditor of analytical pro- n circumstance, of comparable sector. The plerstanding of the portfolio evolution of ing trends: dec Banat-Crisana	Analytical can use this ocedure for an in relation to e size in the purpose is to the objectives management this indicator crease in case and SIF
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res	to ISA 520 the auditor on analytical pro- n circumstance, of comparable sector. The plerstanding of the portfolio evolution of ing trends: dec Banat-Crisana and increas	Analytical can use this ocedure for an in relation to e size in the purpose is to the objectives management this indicator crease in case and SIF se for SIF
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res	to ISA 520 the auditor on analytical pro- n circumstance, of comparable sector. The plerstanding of the portfolio evolution of ing trends: dec Banat-Crisana and increas or SIF Olten	Analytical can use this occdure for an in relation to e size in the purpose is to the objectives management this indicator crease in case and SIF see for SIF has and SIF
Specification Number of listed companies Total number of companies in portfolio	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res	to ISA 520 the auditor of analytical pro- n circumstance, of comparable sector. The plerstanding of the portfolio evolution of ing trends: dec Banat-Crisana and increas or SIF Olten emarkable a co	Analytical can use this occdure for an in relation to e size in the purpose is to the objectives management this indicator crease in case and SIF see for SIF his and SIF onservation of
Specification Number of listed companies Total number of companies in	31.12.2006 77	SIF Oltenia 31.12.2007 74	31.12.2008 65	Research res	to ISA 520 the auditor on analytical pro- n circumstance, of comparable sector. The plerstanding of the portfolio evolution of ing trends: dec Banat-Crisana and increas or SIF Olten	Analytical can use this occdure for an in relation to e size in the purpose is to the objectives management this indicator crease in case and SIF see for SIF his and SIF onservation of

Increasing the value of this indicator involves positive effects on quality of portfolios managed by the Financial Investment Companies, at least regarding the existence of a trading price that may be an accurate estimator for the true fair value of financial assets held in portfolio. This entails significant implications on how the process of recognition and valuation of capital investments in the financial statements is conducted, influencing investors' perceptions upon financial position and performance reported by the Financial Investment Companies, perception measured by the trading price evolutions.

(c) Turnover for a portfolio of financial assets: seeks to quantify the volume of transactions over a certain period of time, relative to the average net asset market value, providing information about both the liquidity of financial assets that make up the portfolio, and of asset-management

⁹ Primary data source: periodic reports concerning net assets of Financial Investment Companies available on the official website of Romanian Fund Managers Association http://www.aaf.ro.

business, for the goal of restructuring portfolio and improving performance. The calculation formula is the following one:

$$R_{p} = I_{V} + \underline{A}_{if} \times 365,$$

$$V_{p}$$
(3)

where:

 R_p – portfolio turnover;

I_v – cash flows from disposal of financial investments;

A_{if} – acquisitions of financial instruments;

 V_p – average net asset market value.

Turnover for portfolios managed by Financial Investment Companies¹⁰

(RON)

1 urnover	for portfolios managed by Financial Investment Companies (RON					(RON)	
	SIF Banat Crișana						
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008	
Cash flows							
from disposal							
of financial							
investments	54.943.414	83.383.615	52.143.447	48.265.702	55.160.268	41.386.467	
Acquisitions							
of financial							
instruments	53.928.808	79.648.515	80.325.426	48.040.858	68.901.698	44.841.998	
Average net							
asset market	1 200 115 500	1 505 10 (514	1 500 200 020	1 157 206 040	1 (00 155 160	1 410 551 010	
value	1.290.115.780	1.787.126.714	1.599.308.820	1.157.206.940	1.623.157.462	1.412.551.919	
Portfolio							
turnover	20.00	22.20	20.22	20.20	27.00	22.20	
(days/rotation)	30,80	33,30	30,23	30,38	27,90	22,28	
		SIF Transilvania		SIF Muntenia			
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008	
Cash flows							
from disposal							
of financial	00.404.44	100 1055	0.7.7.0.0	0.4.554.055	00 00 - 00		
investments	93.184.141	133.774.066	95.705.300	84.524.063	88.007.339	154.494.511	
Acquisitions							
of financial	42.005.205	154 656 610	111 400 062	60.704.101	51.05 0.015	100 045 510	
instruments	43.097.385	154.676.613	111.490.863	60.724.101	71.379.915	100.847.518	
Average net							
asset market	1 267 650 070	2 25 4 020 050	2 10 6 022 004	1 120 200 107	1.044.076.202	1 017 040 070	
value	1.367.659.979	2.254.920.858	2.196.833.884	1.139.380.197	1.844.076.382	1.815.940.968	
Portfolio turnover							
	26 27	16 60	21 12	16.52	21 55	51 22	
(days/rotation)	30,3/	36,37 46,69 34,43			46,53 31,55 51,32		
G	SIF Oltenia			Research results and the role for audit			
Specification	31.12.2006	31.12.2007	31.12.2008	activity:			

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¹⁰ Primary data source: annual financial statements of Financial Investment Companies, published on official websites: http://www.banat-crisana.com (SIF Banat Crişana), http://www.sifm.ro (SIF Moldova), http://www.transif.ro (SIF Transilvania), http://www.sifmuntenia.ro (SIF Muntenia), http://www.sifolt.ro (SIF Oltenia); periodic reports concerning net assets of Financial Investment Companies available on the official website of Romanian Fund Managers Association http://www.aaf.ro.

1 = 4 =	ı		ı	
Cash flows				Applying this analytical procedure, the auditor
from disposal				documents conclusions about the extent of
of financial				trading activity relative to the market value of
investments	87.125.256	128.979.244	27.828.268	financial assets that make up the portfolio of
Acquisitions				Financial Investments Companies. The
of financial				conclusions thus obtained can be used for
instruments	61.265.669	120.033.244	58.372.093	understanding and assessing the operational and
Average net				financial risks affecting the business of such
asset market				entities, in that, normally, a low value reflects
value	1.720.628.961	2.462.992.633	2.091.175.126	an increase in frequency for investment trading
				operations over a certain period of time and
				consequently higher risks. In this approach,
				there is a high level of intensity of market
				operations for SIF Oltenia, SIF Moldova and
Portfolio				SIF Banat-Crisana, where the average value for
turnover				this indicator is 26.85 days/rotation, 27.81
(days/rotation)	31,48	36,90	15,05	days/rotation, respectively 31.44 days/rotation.

(d) Risk remuneration coefficient: shows, on average, how many return units are assigned for a unit of risk by investing in the portfolio over a period of time, after the following calculation method:

$$K_{r} = \frac{R_{p\%}}{\sigma^{2}_{port\%}}, \tag{4}$$

where:

K_r− risk remuneration coefficient;

 $\begin{array}{l} R_{p\%-} \, \text{portfolio rate of return;} \\ \sigma^2_{\, \text{port\%}-} \, \text{portfolio risk.} \end{array}$

Table no. 4

Remuneration coefficient for portfolios managed by the Financial Investment Companies. 11

by the I maneral investment companies.						
	SIF Banat Crișana			SIF Moldova		
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Portfolio rate						
of return (%)	21,84	34,04	-47,86	34,38	6,21	-54,53
Portfolio risk						
(%)	3,87	6,70	8,28	8,67	5,57	11,11
Remuneration						
coefficient	5,64	5,08	n.a.	3,97	1,11	n.a.
	S	IF Transilvania	l	SIF Muntenia		
Specification	31.12.2006	31.12.2007	31.12.2008	31.12.2006	31.12.2007	31.12.2008
Portfolio rate						
of return (%)	24,28	36,04	-40,13	-0,29	81,28	-32,26
Portfolio risk						
(%)	5,71	5,47	12,99	3,42	10,13	4,47
Remuneration						
coefficient	4,25	6,59	n.a.	n.a.	8,02	n.a.
Specification	SIF Oltenia			Research results and the role for audit		

¹¹ Primary data source: Annex no. 17 of NSC Rule no. 15/2004 regarding the authorization and functioning of asset management companies, collective investment bodies and custodians: Reports for AOPC established by memorandum of association – situation of detailed investments.

	31.12.2006	31.12.2007	31.12.2008	activity:
Portfolio rate				For issuing conclusions about the portfolio
of return (%)	16,77	30,45	-55,83	performances obtained by the Financial
Portfolio risk				Investment Companies in relation to the risks
(%)	8,47	4,85	10,66	undertaken, the auditor can use this analytical
	·	·	· ·	procedure based on rates of return and risk
				measures for the companies selected in the
				analysing process. In the proposed model there
				were considered financial instruments issued
				by companies that are traded and have a higher
Remuneration				weight of 2% in the total portfolio for each
coefficient	1,98	6,28	n.a.	Financial Investment Company.

Conclusions

Selecting a general reference criterion for assessing the portfolio performances related to Financial Investment Companies is a prerequisite to adjust future performance targets. In current practice, portfolio managers often relate to the reference interest rate upon which is based the rate of return that characterizes financial assets with medium-low risk (government securities, deposit certificates, government bonds, etc.). Another landmark in evaluating portfolio performance is a general or a sector market index. If the evolution of portfolio profitability is lower in relation with a stock index, portfolio management activity is characterized by low efficiency, the passive strategy being a more advantageous administration alternative. In essence, each portfolio manager seeks higher returns in comparison to the market.

From the perspective of the financial auditor, analytical procedures based on indicators of portfolio performance review for the Financial Investment Companies can be applied effectively as risk assessment procedures at the stage of obtaining knowledge and understanding the entity and its environment, in order to assess risks of material misstatement of the financial statements.

Research findings and the role in auditing activities related to portfolio performances obtained by Financial Investment Companies has been reflected for each type of analytical procedure proposed to be used in audit work.

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