# Risk Measurement of the Bond Mutual Funds Operating in Greece

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#### Abstract

The present article aims to measure and analyze the systematic risk undertaken by the Greek bond mutual funds. The capital asset pricing model is applied using as an approximation of the market portfolio the General Index of the Athens Stock Exchange, and a specific Bond Index. The performance of twenty-eight mutual funds is affected, and can be explained to a satisfactory level by the movements in the Bond Index. On the contrary, in only fifteen mutual funds the performance is affected, and can be explained to a satisfactory level by the movements in the General Index of the ASE. The empirical evidence suggests that the Bond Index approximates the market portfolio much closer than the General Index of the Athens Stock Exchange.

**Keywords:** Mutual funds, bond, bond index, capital asset pricing model **JEL Classification:** G20, G23

## 1. Introduction

An attempt is made to measure and analyze the systematic risk undertaken by the bond mutual funds operating in the Greek financial market over the period 15-3-1999 to 31-12-2001.

The capital asset pricing model is applied using as an approximation of the market portfolio (Greek bond market), first the General Index of the Athens Stock Exchange (ASE), and secondly a specific Bond Index.

The Bond Index used is that developed by P. G. Artikis (2003a). This is the weighted average of all bond issues which satisfy the following conditions: (a) they are bond that have been issued by the Greek state, (b) they provide either fixed or floating interest rate, (c) the amount of outstanding bonds should be greater than 200 billion drachmas in order to overcome the problem of thin trading, and (d) they should be outstanding during the whole period under consideration.

The results from the applications of the Bond Index, and the General Index of the ASE are compared with each other to decide which of these two indices approximates closer the market portfolio.

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## 2. Return

The return of the bond mutual funds per unit was calculated as follows:

$$R_t = \frac{NAV_t - NAV_{t-1}}{NAV_{t-1}}$$

where,

 $R_t$  = Return of bond mutual fund before taxes

 $NAV_t$  = Net asset value per unit during the period t

 $NAV_{t-1}$  = Net asset value per unit during period the period t-1

It should be noted that during the period under consideration the sample bond mutual funds did not pay dividends. Also, the tax rate is same for all bond mutual funds operating in Greece, therefore, there is no reason to compute the return after taxes.

### 3. Risk

The capital asset pricing model with independent variable the General Index of the ASE is as follows (Elton, and Gruber 1995):

$$R_i = a_i + b_i R_{si} + \varepsilon_i$$

where,

 $R_i$  = Return of bond mutual fund i

 $a_i$  = Return of bond mutual fund i when the market is constant

 $b_i$  = Beta coefficient of bond mutual fund i

 $R_{si}$  = Return of stock index (market portfolio)

 $\varepsilon_i$  = Non systematic factors that are independent from the market fluctuations

The capital asset pricing model with independent variable the proposed Bond Index is as follows:

$$R_i = a_i + b_i R_{bi} + \varepsilon_i$$

where,

 $R_{bi}$  = Return of bond index (market portfolio)

The Econometric Views (1997-1999) have been used for the needs of the regression analysis. The methods of Durbin-Watson (Anderson, Sweeney, and Williams 1999), and White (Salvatore 1996) have been applied to test the results for autocorrelation, and heteroscedastisity respectively.

## 4. The Sample

The sample includes all the bond mutual funds operating in the Greek financial market over the period 15-3-1999 to 31-12-2001. These bond mutual funds amount to 30. For each of these 30 bond mutual funds, daily data where collected.

## 5. Findings

The results from the use of the General Index of the ASE as an approximation of the market portfolio point out the existence of autocorrelation (20 mutual funds), and heteroscedastisity (15 mutual funds), which in turn have been corrected properly.

Combining the information presented in Tables 1 and 2 it becomes apparent that fifteen mutual funds have both beta coefficient statistically significant at 5 per cent level of significance, and coefficient of determination higher than 10 per cent. This means that the performance of these mutual funds is not only affected, but also can be explained to a satisfactory level by the movements in the General Index of the ASE. These mutual funds are shown in decreasing order on the basis of the coefficient of determination in Table 1. From the remaining fifteen mutual funds, eight have statistically significant beta coefficient at 5 per cent level of significance, while all of them have coefficient of determination less than 10 per cent.

With probability 95 per cent, all sample mutual funds are expected to achieve beta coefficient lower than 1. This means that the above fifteen mutual funds are defensive in relation to the General Index of the ASE. The sample mutual funds in decreasing order on the basis of beta coefficient are shown in Table 2.

Thirteen from the above fifteen mutual funds have alpha coefficient statistically not significant at 5 per cent level of significance (Table 3). Put another way, only two out of fifteen mutual funds show values for alpha coefficient different than zero value that is assumed by the capital asset price in model.

The results from the use of the proposed Bond Index as an approximation of the market portfolio point out the existence of autocorrelation (21 mutual funds), and heteroscedastisity (23 mutual funds), which in turn have been corrected properly.

Combining the information presented in Tables 4 and 5 it becomes apparent that twenty-eight mutual funds have both beta coefficient statistically significant at 5 per cent level of significance, and coefficient of determination higher than 10 per cent. This means that the performance of these mutual funds is not only affected, but also can be explained to a satisfactory level by the movements in the Bond Index. These mutual funds are shown in decreasing order on the basis of the coefficient of determination in Table 4. The remaining two mutual funds have coefficient of determination less than 10 per cent, although they have statistically significant beta coefficient at 5 per cent level of significance.

With probability 95 per cent, all sample mutual funds are expected to achieve beta coefficient lower than 1. This means that all sample mutual funds are defensive in relation to the Bond Index. The sample mutual funds in decreasing order on the basis of beta coefficient are shown in Table 5.

Twenty-six from the above twenty-eight mutual funds have alpha coefficient statistically significant at 5 per cent level of significance (Table 6). Put another way, only two out of twenty-eight mutual funds show values for alpha coefficient equal to zero value that is assumed by the capital asset price in model.

Comparing the adjusted coefficients of determination that appeared in the Table 7 it becomes apparent that in only four out of thirty mutual funds the General

Index of the Athens Stock Exchange approximates the market portfolio closer than the Bond Index.

### 6. Conclusions

The performance of twenty-eight mutual funds is affected, and can be explained to a satisfactory level by the movements in the Bond Index. In addition, all sample mutual funds are defensive in relation to the Bond Index.

On the contrary, in only fifteen mutual funds the performance is affected, and can be explained to a satisfactory level by the movements in the General Index of the ASE. Besides, these fifteen mutual funds are defensive in relation to the General Index of the ASE.

Put another way the proposed Bond Index appears to approximate the market portfolio much better than the General Index of the Athens Stock Exchange. This also results from the fact that in only four mutual funds the adjusted coefficient of determination on the basis of the General Index of the ASE is higher than the corresponding coefficient on the basis of the Bond Index.

It is worth emphasizing that the present research supports the empirical evidence resulted from other research carried out in the bond mutual funds operating in the Greek financial market (Artikis G. P. 2003b).

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 Table 1: Bond Mutual Funds Based on Determination Coefficient (ASE general index)

ABN AMRO         .1283         .1271         1.91           ALICO EUROBANK         .0930         .0904         2.00           ALLIANZ DOMESTIC BONDS         .1193         .1167         2.00           ALLIANZ PLUS         .2119         .2107         1.91           ALPHA DOMESTIC BONDS         .0177         .0149         1.99           ALPHA REGULAR INCOME         .1952         .1929         1.99           ALPHA TRUST INCOME         .1377         .1352         2.00           ASPIS         .3051         .3031         2.00           ASPIS         .3051         .3031         2.00           ATE ONCOME         .0259         .0231         1.99           ATE CAPITAL AND GROWTH         .0639         .0612         2.00           ATTIKIS         .2511         .2489         2.06           BETA         .0034         .0005         2.00           CITI INCOME         .0053         .0024         2.00           DELOS         .2061         .2038         1.99           EGNATIA-MYCYNEA         .1574         .1562         1.97           HERMES         .3907         .3890         1.98           EUROBANK         .0094 <th>MUTUAL FUNDS</th> <th><math>R^2</math></th> <th><math>\mathrm{Adj}R^2</math></th> <th>DW</th>	MUTUAL FUNDS	$R^2$	$\mathrm{Adj}R^2$	DW
ALLIANZ DOMESTIC BONDS	ABN AMRO	.1283	.1271	1.91
ALLIANZ PLUS .2119 .2107 .1.91  ALPHA DOMESTIC BONDS .0177 .0149 .1.99  ALPHA REGULAR INCOME .1952 .1929 .1.99  ALPHA TRUST INCOME .1.377 .1.352 .2.00  ASPIS .3051 .3031 .2.00  ATE ONCOME .0.259 .0.231 .1.99  ATE CAPITAL AND GROWTH .0.639 .0.612 .2.00  ATTIKIS .2511 .2489 .2.06  BETA .0.034 .0.005 .2.00  CITI INCOME .0.053 .0.024 .2.00  DELOS .2061 .2.038 .1.99  EGNATIA-MYCYNEA .1.574 .1.562 .1.97  HERMES .3.907 .3.890 .1.98  EUROBANK .0.094 .0.065 .2.00  EUROPAIKI PISTI .0.840 .0.813 .1.97  GENIKI .2791 .2781 .1.91  HSBC .1.319 .1.294 .2.00  INTERAMERICAN LONG TERM .0.050 .0.022 .0.00  INTERAMERICAN MIKTO .2461 .2451 .1.95  INTERAMERICAN STABLE .0.026 .0.002 .0.00  INTERAMERICAN STABLE .0.026 .0.002 .2.00  INTERNATIONAL .0.506 .0.493 .1.99  IONIKI LIFE .0.004 .0.014 .1.96  CYPRUS .0.247 .0.0218 .1.99  ILAIKI .0.125 .0.097 .2.00  METROLIFE .1.245 .1.232 .1.92  PIRAEUS .2318 .2306 .2.01	ALICO EUROBANK	.0930	.0904	2.00
ALPHA DOMESTIC BONDS	ALLIANZ DOMESTIC BONDS	.1193	.1167	2.00
ALPHA REGULAR INCOME .1952 .1929 1.99 ALPHA TRUST INCOME .1377 .1352 2.00 ASPIS .3051 .3031 2.00 ATE ONCOME .0259 .0231 1.99 ATE CAPITAL AND GROWTH .0639 .0612 2.00 ATTIKIS .2511 .2489 2.06 BETA .0034 .0005 2.00 CITI INCOME .0053 .0024 2.00 DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	ALLIANZ PLUS	.2119	.2107	1.91
ALPHA TRUST INCOME	ALPHA DOMESTIC BONDS	.0177	.0149	1.99
ASPIS 3.051 3.031 2.00 ATE ONCOME .0259 .0231 1.99 ATE CAPITAL AND GROWTH .0639 .0612 2.00 ATTIKIS .2511 .2489 2.06 BETA .0034 .0005 2.00 CITI INCOME .0053 .0024 2.00 DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	ALPHA REGULAR INCOME	.1952	.1929	1.99
ATE ONCOME	ALPHA TRUST INCOME	.1377	.1352	2.00
ATE CAPITAL AND GROWTH .0639 .0612 2.00 ATTIKIS .2511 .2489 2.06 BETA .0034 .0005 2.00 CITI INCOME .0053 .0024 2.00 DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	ASPIS	.3051	.3031	2.00
ATTIKIS .2511 .2489 2.06 BETA .0034 .0005 2.00 CITI INCOME .0053 .0024 2.00 DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN STABLE .00260002 2.00 INTERAMERICAN STABLE .0026 .0002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	ATE ONCOME	.0259	.0231	1.99
BETA .0034 .0005 2.00 CITI INCOME .0053 .0024 2.00 DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	ATE CAPITAL AND GROWTH	.0639	.0612	2.00
CITI INCOME .0053 .0024 2.00  DELOS .2061 .2038 1.99  EGNATIA-MYCYNEA .1574 .1562 1.97  HERMES .3907 .3890 1.98  EUROBANK .0094 .0065 2.00  EUROPAIKI PISTI .0840 .0813 1.97  GENIKI .2791 .2781 1.91  HSBC .1319 .1294 2.00  INTERAMERICAN LONG TERM .0050 .0022 2.00  INTERAMERICAN MIKTO .2461 .2451 1.95  INTERAMERICAN STABLE .00260002 2.00  INTERNATIONAL .0506 .0493 1.99  IONIKI LIFE .00040014 1.96  CYPRUS .0247 .0218 1.99  LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	ATTIKIS	.2511	.2489	2.06
DELOS .2061 .2038 1.99 EGNATIA-MYCYNEA .1574 .1562 1.97 HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	BETA	.0034	.0005	2.00
EGNATIA-MYCYNEA .1574 .1562 1.97  HERMES .3907 .3890 1.98  EUROBANK .0094 .0065 2.00  EUROPAIKI PISTI .0840 .0813 1.97  GENIKI .2791 .2781 1.91  HSBC .1319 .1294 2.00  INTERAMERICAN LONG TERM .0050 .0022 2.00  INTERAMERICAN MIKTO .2461 .2451 1.95  INTERAMERICAN STABLE .00260002 2.00  INTERNATIONAL .0506 .0493 1.99  IONIKI LIFE .00040014 1.96  CYPRUS .0247 .0218 1.99  LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	CITI INCOME	.0053	.0024	2.00
HERMES .3907 .3890 1.98 EUROBANK .0094 .0065 2.00 EUROPAIKI PISTI .0840 .0813 1.97 GENIKI .2791 .2781 1.91 HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	DELOS	.2061	.2038	1.99
EUROBANK .0094 .0065 2.00  EUROPAIKI PISTI .0840 .0813 1.97  GENIKI .2791 .2781 1.91  HSBC .1319 .1294 2.00  INTERAMERICAN LONG TERM .0050 .0022 2.00  INTERAMERICAN MIKTO .2461 .2451 1.95  INTERAMERICAN STABLE .00260002 2.00  INTERNATIONAL .0506 .0493 1.99  IONIKI LIFE .00040014 1.96  CYPRUS .0247 .0218 1.99  LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	EGNATIA-MYCYNEA	.1574	.1562	1.97
EUROPAIKI PISTI	HERMES	.3907	.3890	1.98
GENIKI .2791 .2781 1.91  HSBC .1319 .1294 2.00  INTERAMERICAN LONG TERM .0050 .0022 2.00  INTERAMERICAN MIKTO .2461 .2451 1.95  INTERAMERICAN STABLE .00260002 2.00  INTERNATIONAL .0506 .0493 1.99  IONIKI LIFE .00040014 1.96  CYPRUS .0247 .0218 1.99  LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	EUROBANK	.0094	.0065	2.00
HSBC .1319 .1294 2.00 INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	EUROPAIKI PISTI	.0840	.0813	1.97
INTERAMERICAN LONG TERM .0050 .0022 2.00 INTERAMERICAN MIKTO .2461 .2451 1.95 INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	GENIKI	.2791	.2781	1.91
INTERAMERICAN MIKTO	HSBC	.1319	.1294	2.00
INTERAMERICAN STABLE .00260002 2.00 INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	INTERAMERICAN LONG TERM	.0050	.0022	2.00
INTERNATIONAL .0506 .0493 1.99 IONIKI LIFE .00040014 1.96 CYPRUS .0247 .0218 1.99 LAIKI .0125 .0097 2.00 METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	INTERAMERICAN MIKTO	.2461	.2451	1.95
IONIKI LIFE       .0004      0014       1.96         CYPRUS       .0247       .0218       1.99         LAIKI       .0125       .0097       2.00         METROLIFE       .1245       .1232       1.92         PIRAEUS       .2318       .2306       2.01	INTERAMERICAN STABLE	.0026	0002	2.00
CYPRUS .0247 .0218 1.99  LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	INTERNATIONAL	.0506	.0493	1.99
LAIKI .0125 .0097 2.00  METROLIFE .1245 .1232 1.92  PIRAEUS .2318 .2306 2.01	IONIKI LIFE	.0004	0014	1.96
METROLIFE .1245 .1232 1.92 PIRAEUS .2318 .2306 2.01	CYPRUS	.0247	.0218	1.99
PIRAEUS .2318 .2306 2.01	LAIKI	.0125	.0097	2.00
COCEN INCOME	METROLIFE	.1245	.1232	1.92
SOGEN INCOME .0292 .0278 1.94	PIRAEUS	.2318	.2306	2.01
	SOGEN INCOME	.0292	.0278	1.94

Table 2: Bond Mutual Funds Based on Beta Coefficient (ASE general index)

MUTUAL FUNDS	Ti	Confidenc	Confidence Interval	
	b	Min	Max	T(b)
ABN AMRO	.0352	.0268	.0437	8.14
ALICO EUROBANK	.0255	.0166	.0345	5.57
ALLIANZ DOMESTIC BONDS	.0386	.0287	.0485	7.64
ALLIANZ PLUS	.0599	.0492	.0706	10.94
ALPHA DOMESTIC BONDS	0001	0050	0048	03
ALPHA REGULAR INCOME	.0157	.0108	.0205	6.32
ALPHA TRUST INCOME	.0334	.0242	.0426	7.13
ASPIS	.0603	.0531	.0674	16.57
ATE INCOME	.0076	.0010	.0143	2.26
ATE CAPIATAL AND GROWTH	.0193	.0127	.0259	5.75
ATTIKIS	.0329	.0257	.0400	9.01
BETA	.0033	0037	.0104	.93
CITI INCOME	0015	0047	.0016	97
DELOS	.0350	.0297	.0403	12.98
EGNATIA-MYCYNEA	.0446	.0345	.0547	8.64
HERMES	.0336	.0285	.0387	12.92
EUROBANK	0036	0115	.0042	91
EUROPAIKI PISTI	.0137	.0063	.0211	3.62
GENIKI	.0477	.0420	.0534	16.39
HSBC	.0285	.0194	.0377	6.09
INTERAMERICAN LONG TERM	0011	0046	.0024	62
INTERAMERICAN MIKTO	.0436	.0379	.0493	15.05
INTERAMERICAN STABLE	0017	0033	.0030	10
INTERNATIONAL	.0493	.0334	.0652	6.08
IONIKI LIFE	0024	0032	.0027	15
CYPRUS	.0164	.0077	.0251	3.71
LAIKI	.0109	.0013	.0205	2.22
METROLIFE	.0252	.0203	.0302	9.93
PIRAEUS	.0366	.0299	.0432	10.80
SOGEN INCOME	.0475	.0271	.0678	4.56

 Table 3: Bond Mutual Funds Based on Alpha Coefficient (ASE general index)

«ТРИСТИВНИЙ МОНТИНЕ ТОТО ПОСТООТНОТИТЕ НЕПОЗДЕНИЕ НЕ ПОСТОИТЕЛЬНИЙ В ПОСТОИТЕ		Confidenc		
MUTUAL FUNDS	A	Min	Min	t(a)
ABN	.000218	.000078	.00036	3.05
ALICO EUROBANK	.000177	.000070	.00034	2.17
ALLIANZ DOMESTIC BONDS	.000201	.000024	.00038	2.22
ALLIANZ PLUS	.000221	.000021	.00040	2.45
ALPHA DOMESTIC BONDS	.000255	.000140	.00037	4.35
ALPHA REGULAR INCOME	.000210	.000139	.00028	5.80
ALPHA TRUST INCOME	.000274	.000116	.00043	3.40
ASPIS	.000110	000057	.00028	1.29
ATE INCOME	.000216	.000108	.00032	3.93
ATE CAPITAL AND INCOME	.000252	.000100	.00040	3.24
ATTIKIS	.000386	.000269	.00050	6.48
BETA	.000392	.000254	.00053	5.53
CITI INCOME	.000190	.000146	.00023	8.48
DELOS	.000219	.000102	.00034	3.64
EGNATIA-MYCYNEA	.000146	000012	.00030	1.81
HERMES	.000211	.000142	.00028	6.05
EUROBANK	.000292	.000182	.00040	5.19
EUROPAIKI PISTI	.000262	.000140	.00038	4.20
GENIKI	.000211	.000094	.00033	3.52
HSBC	.000299	.000141	.00046	3.70
INTERAMERICAN LONG TERM	.000180	.000104	.00026	4.62
INTERAMERICAN MIKTO	.000175	.000058	.00029	2.92
INTERAMERICAN STABLE	.000218	.000150	.00029	6.28
INTERNATIONAL	.000275	000052	.00060	1.64
IONIKI LIFE	.000200	.000139	.00026	6.42
CYPRUS	.000301	.000112	.00049	3.11
LAIKI	.000223	.000011	.00043	2.06
METROLIFE	.000304	.000201	.00041	5.81
PIRAEUS	.000219	.000117	.00032	4.21
SOGEN INCOME	.000413	000006	.00083	1.93

 Table 4: Bond Mutual Fund Based on Determination Coefficient (BOND index)

MUTUAL FUNDS	$I\!\!R^2$	$AdjR^2$	DW
LAIKI	.8612	.8608	1.99
ATE CAPITAL AND GROWTH	.7112	.7103	1.99
CYPRUS	.7110	.7101	2.02
ALLIANZ DOMESTIC BONDS	.7085	.7081	1.96
ATE INCOME	.6639	.6634	1.98
GENIKI	.5740	.5727	1.99
DELOS	.5709	.5697	1.99
ABN AMRO	.5522	.5509	1.99
ALICO EUROBANK	.5498	.5485	1.99
ALLIANZ PLUS	.5110	.5096	1.99
ALPHA TRUST INCOME	.4891	.4876	2.00
PIRAEUS	.4694	.46′79	1.98
ALPHA DOMESTIC BONDS	.4122	.4105	1.99
EGNATIA-MYCYNEA	.3523	.3514	2.00
IONIKI LIFE	.3188	.3178	2.01
INTERAMERICAN MIKTO	.3163	.3143	2.00
HSBC	.2948	.2928	1.99
METROLIFE	.2927	.2907	2.02
EUROBANK	.2755	.2745	1.91
INTERAMERICAN STABLE	.2693	.2672	2.00
CITI INCOME	.2618	.2607	2.05
EUROPAIKI PISTI	.2393	.2371	1.93
HERMES	.1798	.1774	1.97
INTERAMERICAN LONG TERM	.1781	.1758	2.00
ATTIKIS	.1463	.1439	2.05
BETA	.1432	.1419	2.06
ALPHA REGULAR INCOME	.1392	.1367	1.97
ASPIS	.1273	.1247	1.97
INTERNATIONAL	.0799	.0786	1.97
SOGEN INCOME	.0711	.0697	1.95

 Table 5: Bond Mutual Funds Based on Beta Coefficient (BOND index)

MUTUAL FUNDS	The state of the s	Confiden	Confidence Interval	
	b	Min	Max	t(b)
ABN AMRO	.5949	.5353	.6545	19.56
ALICO EUROBANK	.5760	.5127	.6394	17.81
ALLIANZ DOMESTIC BONDS	.7887	.7345	.8430	28.50
ALLIANZ PLU	.7592	.6811	.8373	19.05
ALPHA DOMESTIC BONDS	.3372	.2782	.3962	11.19
ALPHA REGULAR INCOME	.0962	.0727	.1197	8.03
ALPHA TRUST INCOME	.5487	.4819	.6155	16.09
ASPIS	.2901	.2087	.3716	6.98
ATE INCOME	.4289	.4062	.4516	37.02
ATE CAPITAL AND GROWTH	.6179	.5681	.6677	24.31
ATTIKIS	.1780	.1211	.2349	6.13
BETA	.2947	.2411	.3484	10.76
CITI INCOME	.1144	.1001	.1287	15.68
DELOS	.4851	.4424	.5279	22.25
EGNATIA-MYCYNEA	.5452	.4531	.6373	11.59
HERMES	.1807	.1374	.2240	8.17
EUROBANK	.2859	.2514	.3204	16.24
EUROPAIKI PISTI	.2452	.1899	.3005	8.69
GENIKI	.5590	.5049	.6132	20.25
HSBC	.3818	.3171	.4465	11.56
INTERAMERICAN LONG TERM	.1595	.1174	.2015	7.42
INTERAMERICAN MIKTO	.3990	.3347	.4633	12.16
INTERAMERICAN STABLE	.1787	.1459	.2115	10.68
INTERNATIONAL	.5061	.3783	.6339	7.76
IONIKI LIFE	.1839	.1454	.2224	9.35
CYPRUS	.8100	.7299	.8901	19.82
LAIKI	.9775	.9355	1.0194	45.66
METROLIFE	.3140	.2674	.3608	13.18
PIREAUS	.4256	.3817	.4695	18.99
SOGEN INCOME	.6048	.4421	.7674	7.28
		warms/class condon-15 was this proportion to be 2000/00/00		DAYSON CO. THE RECEIVE AND PROPERTY OF THE PRO

Table 6: Bond Mutual Funds Based on Alpha Coefficient (BOND index)

MUTUAL FUNDS		Confidence	Confidence Interval	
	a	Min	Max	t(a)
ABN AMRO	.000218	.000105	.000331	3.79
ALICO EUROBANK	.000179	.000074	.000284	3.35
ALLIANZ DOMESTIC BONDS	.000203	.000109	.000297	4.20
ALLIANZ PLUS	.000216	.000065	.000367	2.80
ALPHA DOMESTIC BONDS	.000261	.000173	.000349	5.79
ALPHA REGULAR INCOME	.000206	.000128	.000284	5.15
ALPHA TRUST INCOME	.000273	.000143	.000403	4.13
ASPIS	.000096	000098	.000290	0.96
ATE INCOME	.000221	.000164	.000278	7.58
ATE CAPITAL AND GROWTH	.000257	.000174	.000340	6.11
ATTIKIS	.000379	.000240	.000518	5.34
ВЕТА	.000397	.000262	.000532	5.76
CITI INCOME	.000192	.000156	.000228	10.47
DELOS	.000217	.000132	.000302	5.00
EGNATIA-MYCYNEA	.000141	.000002	.000280	1.99
HERMES	.000203	.000119	.000287	4.72
EUROBANK	.000299	.000212	.000386	6.73
EUROPAIKI PISTI	.000262	.000144	.000380	4.34
GENIKI	.000206	.000104	.000308	3.94
HSBC	.000296	.000139	.000453	3.70
INTERAMERICAN LONG TERM	.000184	.000113	.000255	5.0
INTERAMERICAN MIKTO	.000167	.000039	.000295	2.5
INTERAMERICAN STABI E	.000222	.000164	.000280	7.4
INTERNATIONAL	.000267	000054	.000588	1.6
IONIKI LIFE	.000204	.000154	.000254	7.9
CYPRUS	.000311	.000229	.000393	7.4
LAIKI	.000238	.000172	.000304	7.0
METROLIFE	.000302	.000197	.000407	5.6
PIRAEUS	.000215	.000125	.000305	4.6
SOGEN INCOME	.000408	000002	.000818	1.9

 Table 7: Summary Information

Bond Index         Stock Index           ABN AMRO         .5509         .1271         .4238           ALICO EUROBANK         .5485         .0904         .4581           ALLIANZ DOMESTIC BONDS         .7081         .1167         .5914           ALLIANZ PLUS         .5096         .2107         .2989           ALPHA DOMESTIC BONDS         .4105         .0149         .3956           ALPHA REGULAR INCOME         .1367         .1929        0562           ALPHA TRUST INCOME         .4876         .1352         .3524           ASPIS         .1247         .3031        1784           ATE INCOME         .6634         .0231         .6403           ATE CAPITAL AND GROWTH         .7103         .0612         .6491           ATTIKIS         .1439         .2489        1050           BETA         .1419         .0005         .1414           CITI INCOME         .2607         .0024         .2583           DELOS         .5697         .2038         .3659           EGNATIA-MYCYNEA         .3514         .1562         .1952           HERMES         .1774         .3890         -2116           EUROBANK         .2745	MUTUAL FUNDS	Adjus	Adjusted R <sup>2</sup>		
ALICO EUROBANK 5485 .0904 .4581 ALLIANZ DOMESTIC BONDS .7081 .1167 .5914 ALLIANZ PLUS .5096 .2107 .2989 ALPHA DOMESTIC BONDS .4105 .0149 .3956 ALPHA REGULAR INCOME .1367 .1929 .0562 ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .3031 .1784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .06692 INTERAMERICAN MIKTO .3143 .2451 .0669 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	MOTOAL FONDS	Bond Index	Stock Index	Change	
ALLIANZ DOMESTIC BONDS .7081 .1167 .5914 ALLIANZ PLUS .5096 .2107 .2989 ALPHA DOMESTIC BONDS .4105 .0149 .3956 ALPHA REGULAR INCOME .1367 .1929 .0562 ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .3031 .1784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ABN AMRO	.5509	.1271	.4238	
ALLIANZ PLUS .5096 .2107 .2989 ALPHA DOMESTIC BONDS .4105 .0149 .3956 ALPHA REGULAR INCOME .1367 .1929 .0562 ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .3031 .1784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALICO EUROBANK	.5485	.0904	.4581	
ALPHA DOMESTIC BONDS .4105 .0149 .3956 ALPHA REGULAR INCOME .1367 .1929 .0562 ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .3031 .1784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALLIANZ DOMESTIC BONDS	.7081	.1167	.5914	
ALPHA REGULAR INCOME .1367 .19290562 ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .30311784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .24891050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALLIANZ PLUS	.5096	.2107	.2989	
ALPHA TRUST INCOME .4876 .1352 .3524 ASPIS .1247 .3031 .1784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALPHA DOMESTIC BONDS	.4105	.0149	.3956	
ASPIS .1247 .30311784 ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .24891050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALPHA REGULAR INCOME	.1367	.1929	0562	
ATE INCOME .6634 .0231 .6403 ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ALPHA TRUST INCOME	.4876	.1352	.3524	
ATE CAPITAL AND GROWTH .7103 .0612 .6491 ATTIKIS .1439 .2489 .1050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .3890 .2116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ASPIS	.1247	.3031	1784	
ATTIKIS .1439 .24891050 BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ATE INCOME	.6634	.0231	.6403	
BETA .1419 .0005 .1414 CITI INCOME .2607 .0024 .2583 DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	ATE CAPITAL AND GROWTH	.7103	.0612	.6491	
CITI INCOME .2607 .0024 .2583  DELOS .5697 .2038 .3659  EGNATIA-MYCYNEA .3514 .1562 .1952  HERMES .1774 .38902116  EUROBANK .2745 .0065 .2680  EUROPAIKI PISTI .2371 .0813 .1558  GENIKI .5727 .2781 .2946  HSBC .2928 .1294 .1634  INTERAMERICAN LONG TERM .1758 .0022 .1736  INTERAMERICAN MIKTO .3143 .2451 .0692  INTERAMERICAN STABLE .26720002 .2674  INTERNATIONAL .0786 .0493 .0293  IONIKI LIFE .31780014 .3192  CYPRUS .7101 .0218 .6883  LAIKI .8608 .0097 .8511  METROLIFE .2907 .1232 .1675  PIRAEUS .4679 .2306 .2373	ATTIKIS	.1439	.2489	1050	
DELOS .5697 .2038 .3659 EGNATIA-MYCYNEA .3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .2672 .0002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .3178 .0014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	BETA	.1419	.0005	.1414	
EGNATIA-MYCYNEA 3514 .1562 .1952 HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	CITI INCOME	.2607	.0024	.2583	
HERMES .1774 .38902116 EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	DELOS	.5697	.2038	.3659	
EUROBANK .2745 .0065 .2680 EUROPAIKI PISTI .2371 .0813 .1558 GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	EGNATIA-MYCYNEA	.3514	.1562	.1952	
EUROPAIKI PISTI .2371 .0813 .1558  GENIKI .5727 .2781 .2946  HSBC .2928 .1294 .1634  INTERAMERICAN LONG TERM .1758 .0022 .1736  INTERAMERICAN MIKTO .3143 .2451 .0692  INTERAMERICAN STABLE .26720002 .2674  INTERNATIONAL .0786 .0493 .0293  IONIKI LIFE .31780014 .3192  CYPRUS .7101 .0218 .6883  LAIKI .8608 .0097 .8511  METROLIFE .2907 .1232 .1675  PIRAEUS .4679 .2306 .2373	HERMES	.1774	.3890	2116	
GENIKI .5727 .2781 .2946 HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	EUROBANK	.2745	.0065	.2680	
HSBC .2928 .1294 .1634 INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	EUROPAIKI PISTI	.2371	.0813	.1558	
INTERAMERICAN LONG TERM .1758 .0022 .1736 INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	GENIKI	.5727	.2781	.2946	
INTERAMERICAN MIKTO .3143 .2451 .0692 INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	HSBC	.2928	.1294	.1634	
INTERAMERICAN STABLE .26720002 .2674 INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	INTERAMERICAN LONG TERM	.1758	.0022	.1736	
INTERNATIONAL .0786 .0493 .0293 IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	INTERAMERICAN MIKTO	.3143	.2451	.0692	
IONIKI LIFE .31780014 .3192 CYPRUS .7101 .0218 .6883 LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	INTERAMERICAN STABLE	.2672	0002	.2674	
CYPRUS .7101 .0218 .6883  LAIKI .8608 .0097 .8511  METROLIFE .2907 .1232 .1675  PIRAEUS .4679 .2306 .2373	INTERNATIONAL	.0786	.0493	.0293	
LAIKI .8608 .0097 .8511 METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	IONIKI LIFE	.3178	0014	.3192	
METROLIFE .2907 .1232 .1675 PIRAEUS .4679 .2306 .2373	CYPRUS	.7101	.0218	.6883	
PIRAEUS .4679 .2306 .2373	LAIKI	.8608	.0097	.8511	
	METROLIFE	.2907	.1232	.1675	
SOGEN INCOME .0697 .0278 .0419	PIRAEUS	.4679	.2306	.2373	
	SOGEN INCOME	.0697	.0278	.0419	

