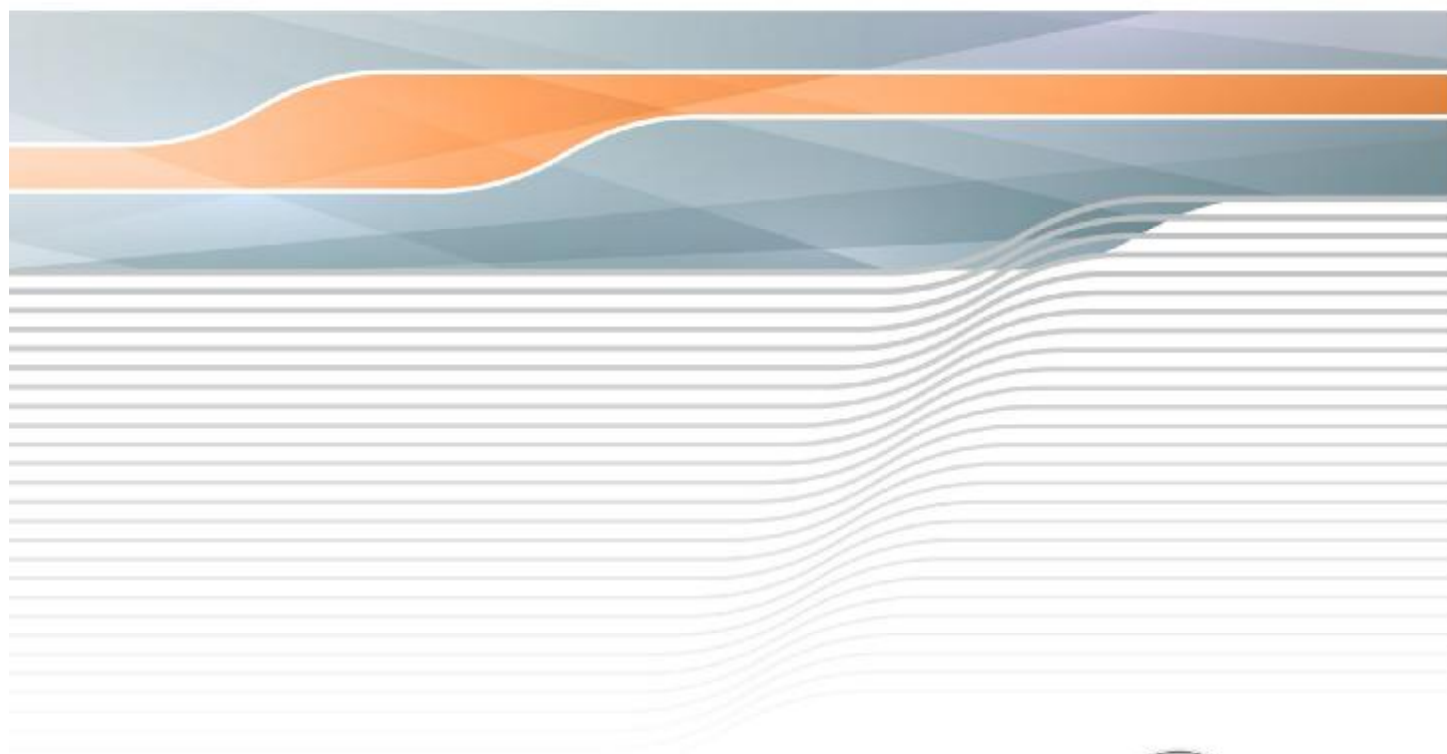


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Securities Market
Monthly Statistical Bulletin
AXIA NUMBERS
November



ATHEXGROUP
Athens Exchange Group



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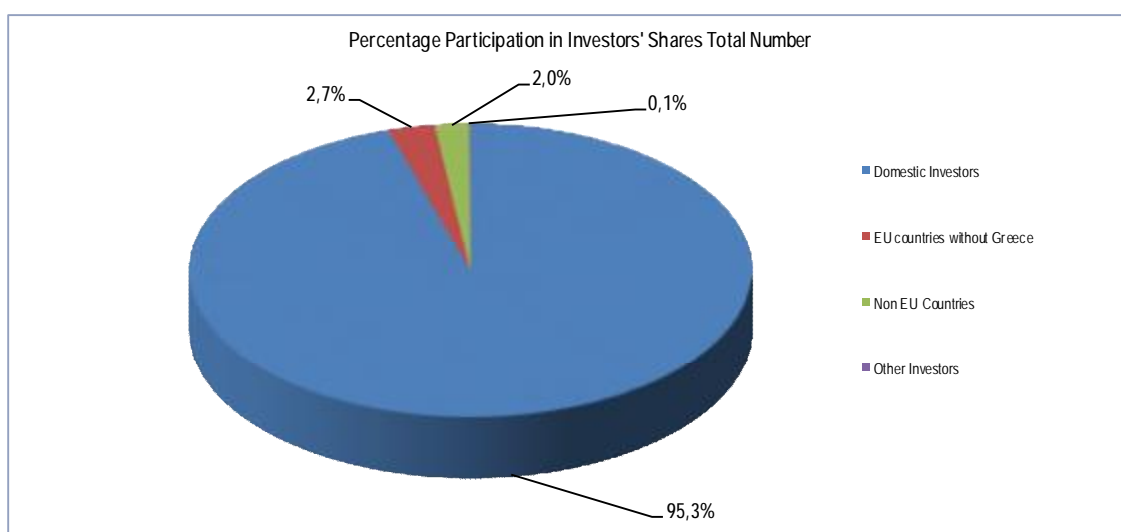
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1 General Investors' Shares Data

1.1 Investors' Shares Total Number

Investors' Shares Total Number					
Date	Investors' Categories				
	Domestic Investors	Foreign Investors		Other Investors	Total
		EU countries without Greece	Non EU Countries		
29/11/2019	1.395.510	38.978	28.884	1.025	1.464.397



1.2 New Investors Shares

Investors' Categories	Number Of New Investor Shares	
	Greek investors	Foreign investors
Physical persons	455	27
Legal entities	9	85
Total / RC	464	112
Total	576	

RC : Registered Country

1.3 Investors Shares' Historical Statistics

	Number Of New Investor Shares													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
January	3.223	4.013	3.052	4.101	2.861	3.497	1.925	1.607	1.338	1.659	708	584	888	569
February	2.564	2.297	2.522	4.018	5.027	3.071	2.248	1.571	1.054	2.313	978	543	672	594
March	3.229	3.685	1.858	4.450	3.062	2.415	3.251	1.378	1.121	1.399	759	2.543	1.023	1.444
April	3.260	2.974	2.304	3.542	5.646	1.881	1.232	2.537	3.374	1.130	502	522	681	617
May	9.892	2.122	2.073	3.644	3.043	2.371	1.825	5.238	1.308	1.137	636	735	948	770
June	14.662	9.153	1.710	3.231	2.373	2.296	2.521	5.891	969	1.485	648	2.200	656	783
July	5.027	3.605	2.621	3.144	3.393	1.764	1.245	1.422	1.027	289	626	840	590	1.117
August	2.208	3.331	1.488	2.348	1.467	2.467	1.038	938	888	979	431	579	584	626
September	2.869	1.939	1.873	2.599	3.460	2.423	1.416	1.070	1.159	804	487	590	599	582
October	4.709	3.031	6.505	2.932	3.697	2.318	1.892	1.314	980	677	489	566	621	942
November	2.982	2.847	6.465	2.674	2.810	2.456	1.546	1.206	941	3.112	529	595	618	576
December	2.042	2.221	3.022	2.922	1.872	1.442	1.045	1.195	1.075	3.524	548	588	427	

	Number Of Deactivated Investor Shares													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
January	725	630	269	301	237	375	113	164	136	163	400	199	195	146
February	838	272	238	452	95	159	146	146	97	130	257	152	159	322
March	841	559	288	203	212	214	107	210	237	148	356	200	181	178
April	510	207	296	298	168	350.093	163	157	98	135	260	133	108	122
May	748	260	140	268	65	5.722	87	133	118	119	201	138	182	508
June	1.334	205	316	194	237	176	112	180	228	159	281	112	173	90
July	2.098	279	303	257	186	68	126	191	141	122	191	122	108	158
August	88.775	464	205	258	103	104	160	85	86	233	239	85	139	76
September	147.995	226	178	122	69	266	254	205	115.265	4.535	313.961	2.453	16.425	23.934
October	87.071	278	253	84	118	96	121	23.246	151	222	243	125	171	94
November	237	296	135	78	239	392	103	154	116	155	388	199	156	65
December	194	253	259	364	231	131	52	154	224	224	189	82	100	

Notes:

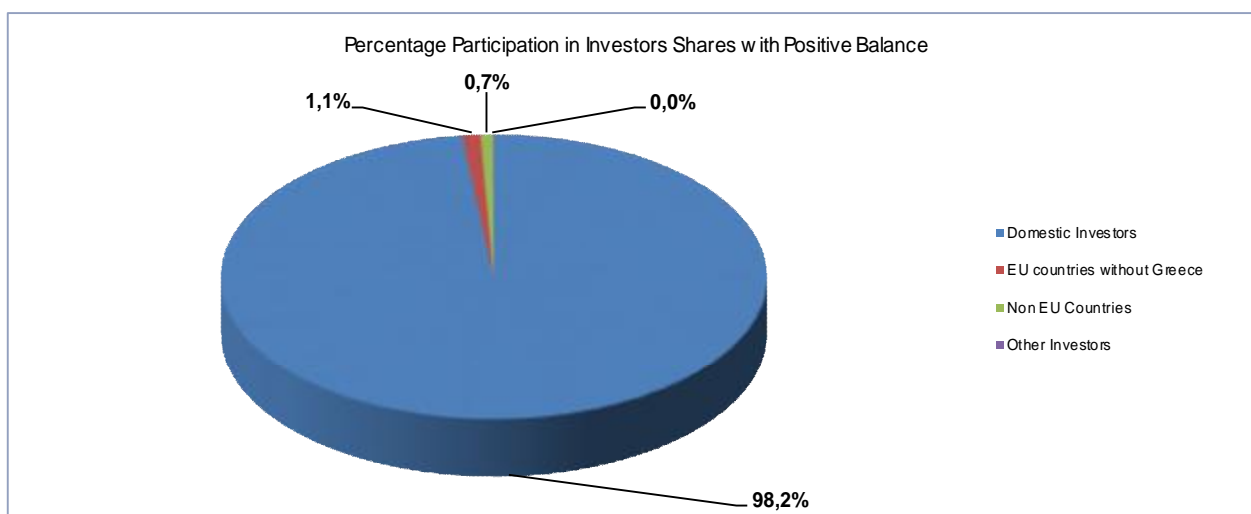
1. New Investor Shares also include the Non-appeared Investor Shares (October 2004- Non-appeared Investor Shares 2.549) i.e. the Investor Shares that have been opened from the issuers concerning those shareholders that did not dematerialized their shares according to the registration of data held at that time.
2. The category Physical persons includes co-owners and joint investors shares.
3. Deactivated Investor Shares are those that have been closed the specific period of time. The actual total number of Investor Shares in DSS, equals the total number of the new Investors' Shares (table 1.1) minus the total number of deactivated Investor Shares (table 1.2).
4. The increased number of Investor Shares in 2003 results from the issuance and registration of Special Saving Bonds held in DSS. The increased number of Deactivated Investor Shares from August to October 2006 as well as in April & May 2011 and October 2013, September 2013 & 2014, September 2015, 2016, 2017 & 2018 derives from the gradual application of article 18.1.aa, Dematerialised Securities Stock Exchange Transactions Clearing and Settlement Regulation and the decision 243/15-09-2004 of CSD's Board of Directors, which states that any Investor Share without positive balance and no transaction of any kind within a period of three (3) years, shall be deactivated.

1.4 Investors Shares with Positive Balance

Investors Shares with Positive Balance					
(Data of: 29/11/2019)	Investors' Categories				
	Domestic Investors	Foreign Investors		Other Investors	Total
		EU countries without Greece	Non EU Countries		
Total Number of Investors Shares with Positive Balance	566.693	6.138	4.280	192	577.303

Investors Shares with Positive Balance to

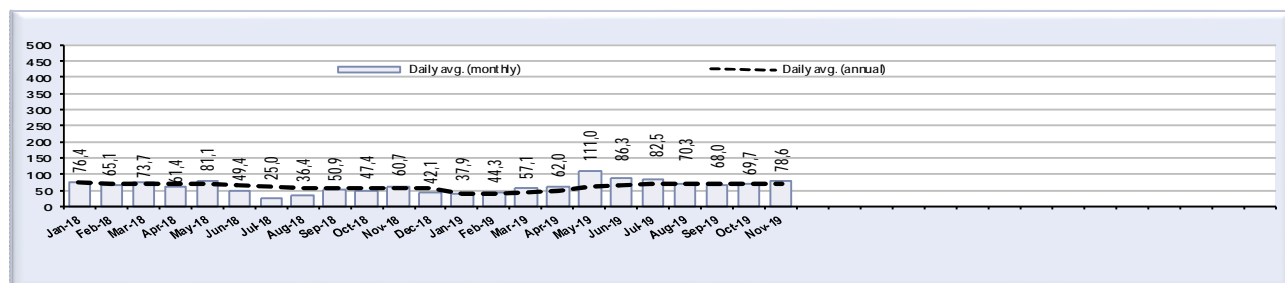
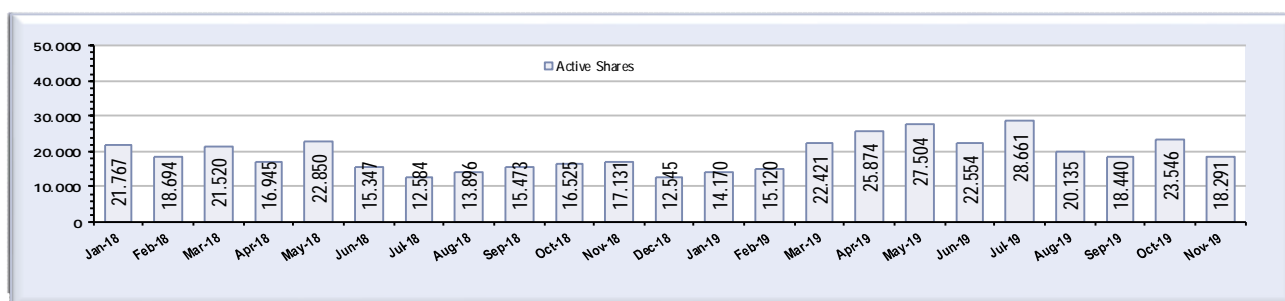
ATHEX Shares	553.338	5.844	4.236	184	563.602
XNET Shares	1.252	344	41	0	1.637
ATHEX Bonds	28.540	97	41	13	28.691
XNET Bonds	1	0	0	0	1
ATHEX Rights	10.494	140	154	3	10.791
XNET Rights	1	0	0	0	1
ATHEX GDRs	279	4	0	1	284
ATHEX ETFs	499	8	12	0	519
XNET ETFs	0	0	0	0	0
ATHEX Derivatives	1.797	26	4	0	1.827
ATHEX Warrants	0	0	0	0	0
XNET Warrants	1	1	2	0	4



2 Mobility of Active Investors

2.1 Historical Data of Mobility of Active Investors

Mobility of Active Investors			
Month - Year	Active Shares	Turnover	
	Total	Daily avg. (monthly) (mil. €)	Daily avg. (annual) (mil. €)
Jan-18	21.767	76,4	76,4
Feb-18	18.694	65,1	71,2
Mar-18	21.520	73,7	72,0
Apr-18	16.945	61,4	69,6
May-18	22.850	81,1	72,0
Jun-18	15.347	49,4	68,1
Jul-18	12.584	25,0	61,5
Aug-18	13.896	36,4	58,2
Sep-18	15.473	50,9	57,4
Oct-18	16.525	47,4	56,3
Nov-18	17.131	60,7	56,7
Dec-18	12.545	42,1	55,7
Jan-19	14.170	37,9	37,9
Feb-19	15.120	44,3	40,9
Mar-19	22.421	57,1	46,0
Apr-19	25.874	62,0	49,6
May-19	27.504	111,0	63,0
Jun-19	22.554	86,3	66,7
Jul-19	28.661	82,5	69,2
Aug-19	20.135	70,3	69,4
Sep-19	18.440	68,0	69,2
Oct-19	23.546	69,7	69,3
Nov-19	18.291	78,6	70,1



Notes:

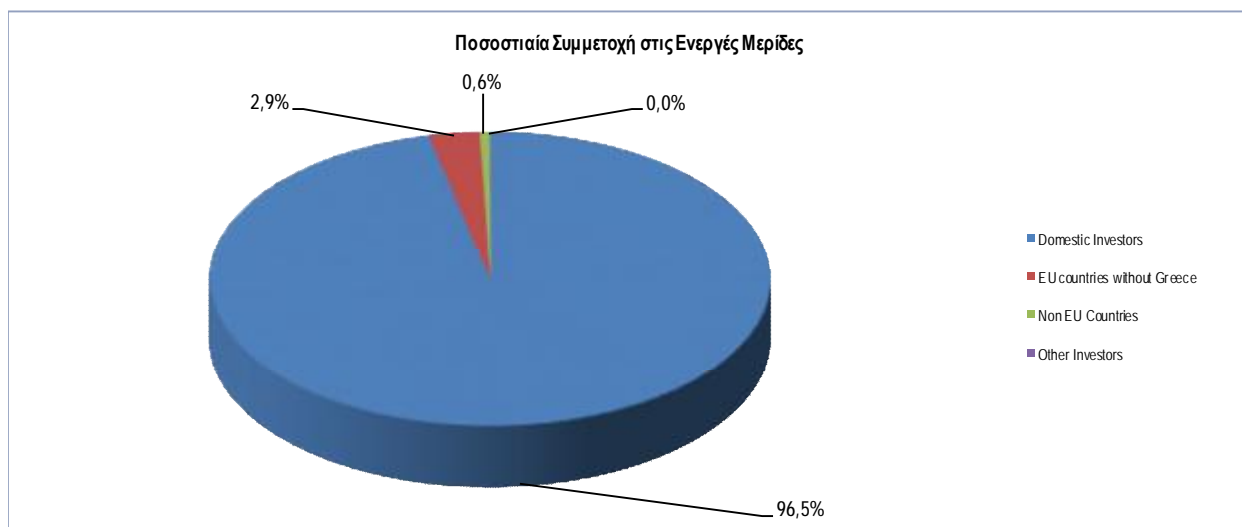
- Active Shares: the number of shares that made at least one move during the month (sell or buy).
- Daily Average of Active Shares: the number of shares that moved during the month divided by the number of trading days.
- In the calculation of Daily Average of Turnover, blocks of securities without revenues are included.

2.2 Active Investors Shares Analysis

Active Investors Shares					
(01/11/2019-29/11/2019)	Investors' Categories				
	Domestic Investors	Foreign Investors		Other Investors	Total
		EU countries without Greece	Non EU Countries		
Total Number of Active Investors Shares	17.648	530	107	6	18.291

Active Investors Shares to

ATHEX Shares	17.010	465	94	6	17.575
XNET Shares	95	68	7	0	170
ATHEX Bonds	828	24	10	0	862
XNET Bonds	0	0	0	0	0
ATHEX Rights	69	3	0	0	72
XNET Rights	0	0	0	0	0
ATHEX GDRs	47	2	0	0	49
ATHEX ETFs	20	3	1	0	24
ATHEX Derivatives	1.813	29	5	0	1.847
ATHEX Warrants	0	0	0	0	0
XNET Warrants	0	0	0	0	0



2.3 Analysis of the Monthly Trading Activity in Athex Market per Investor Category

2.3.1 Analysis of the Monthly Trading Activity in Total of Listed Equities of Athex Market per Investor Category

Total of Listed Equities (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
Investors' Categories	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	11.608	96,32	634,14	42,46	13.094	96,77	683,28	45,75	-49,14	S	-282,61	S
Households	11.391	94,52	250,12	16,75	12.877	95,17	272,27	18,23	-22,15	S	-102,90	S
Insurance Corporations	5	0,04	5,66	0,38	6	0,04	9,79	0,66	-4,13	S	21,34	B
Pension funds	6	0,05	11,83	0,79	3	0,02	11,13	0,75	0,71	B	10,89	B
Money Market Funds (MMFs)	15	0,12	4,49	0,30	11	0,08	14,57	0,98	-10,09	S	78,71	B
Non-MMF Investment Funds	46	0,38	49,89	3,34	51	0,38	45,94	3,08	3,95	B	135,41	B
Deposit-taking corporations	10	0,08	46,05	3,08	14	0,10	58,92	3,94	-12,87	S	-474,07	S
Other Financial Intermediaries, except insurance corporations & pension funds	41	0,34	242,37	16,23	41	0,30	252,66	16,92	-10,29	S	-1,73	S
Non-Profit Institutions serving Households	2	0,02	0,24	0,02	4	0,03	0,31	0,02	-0,06	S	3,30	B
Non-Financial corporations	92	0,76	23,49	1,57	86	0,64	17,32	1,16	6,17	B	46,90	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Social Security Funds	0	0,00	0,00	0,00	1	0,01	0,38	0,03	-0,38	S	-0,44	S
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	440	3,65	859,43	57,54	433	3,20	810,20	54,24	49,23	B	282,81	B
Households	288	2,39	11,40	0,76	284	2,10	12,31	0,82	-0,91	S	-13,44	S
Insurance Corporations	1	0,01	0,23	0,02	1	0,01	0,16	0,01	0,07	B	-9,38	S
Pension funds	2	0,02	0,17	0,01	0	0,00	0,00	0,00	0,17	B	-2,46	S
Money Market Funds (MMFs)	7	0,06	2,29	0,15	7	0,05	6,57	0,44	-4,28	S	-22,74	S
Non-MMF Investment Funds	34	0,28	27,66	1,85	20	0,15	13,90	0,93	13,76	B	28,58	B
Deposit-taking corporations	30	0,25	335,33	22,45	27	0,20	275,84	18,47	59,49	B	88,83	B
Other Financial Intermediaries, except insurance corporations & pension funds	32	0,27	410,21	27,46	37	0,27	422,67	28,30	-12,46	S	-148,09	S
Non-Profit Institutions serving Households	1	0,01	0,09	0,01	1	0,01	0,49	0,03	-0,41	S	-1,66	S
Non-Financial corporations	40	0,33	17,22	1,15	47	0,35	37,06	2,48	-19,84	S	427,48	B
Central Government	1	0,01	0,49	0,03	1	0,01	0,06	0,00	0,43	B	8,61	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	4	0,03	54,34	3,64	7	0,05	40,35	2,70	13,99	B	-72,14	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	1	0,01	0,78	0,05	-0,78	S	-0,78	S
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	4	0,03	0,07	0,00	4	0,03	0,16	0,01	-0,10	S	-0,19	S
TOTALS	12.052	100,00	1.493,64	100,00	13.531	100,00	1.493,64	100,00				

2.3.2 Analysis of the Monthly Trading Activity in Main Market Category of Athex Market per Investor Category

Main Market (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
Investors' Categories	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	11.135	96,28	600,59	41,58	12.333	96,67	646,56	44,76	-45,97	S	-270,78	S
Households	10.944	94,63	239,27	16,56	12.141	95,16	252,67	17,49	-13,39	S	-87,13	S
Insurance Corporations	3	0,03	4,56	0,32	5	0,04	8,63	0,60	-4,07	S	16,82	B
Pension funds	4	0,03	9,98	0,69	3	0,02	10,59	0,73	-0,61	S	8,71	B
Money Market Funds (MMFs)	12	0,10	3,09	0,21	10	0,08	14,37	0,99	-11,28	S	64,89	B
Non-MMF Investment Funds	42	0,36	44,33	3,07	44	0,34	43,47	3,01	0,86	B	117,29	B
Deposit-taking corporations	6	0,05	37,49	2,60	9	0,07	52,37	3,63	-14,87	S	-443,43	S
Other Financial Intermediaries, except insurance corporations & pension funds	38	0,33	239,04	16,55	39	0,31	247,78	17,15	-8,74	S	-3,41	S
Non-Profit Institutions serving Households	2	0,02	0,23	0,02	3	0,02	0,15	0,01	0,08	B	1,80	B
Non-Financial corporations	84	0,73	22,59	1,56	78	0,61	16,16	1,12	6,43	B	54,14	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	1	0,01	0,38	0,03	-0,38	S	-0,45	S
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	426	3,68	843,88	58,42	421	3,30	797,82	55,23	46,07	B	270,93	B
Households	284	2,46	11,20	0,78	278	2,18	11,83	0,82	-0,63	S	-12,57	S
Insurance Corporations	1	0,01	0,23	0,02	1	0,01	0,03	0,00	0,20	B	-8,88	S
Pension funds	2	0,02	0,17	0,01	0	0,00	0,00	0,00	0,17	B	-2,52	S
Money Market Funds (MMFs)	7	0,06	2,29	0,16	7	0,05	5,88	0,41	-3,59	S	-20,11	S
Non-MMF Investment Funds	29	0,25	26,73	1,85	19	0,15	13,44	0,93	13,28	B	27,81	B
Deposit-taking corporations	28	0,24	331,32	22,94	25	0,20	271,96	18,83	59,36	B	81,95	B
Other Financial Intermediaries, except insurance corporations & pension funds	31	0,27	402,21	27,84	37	0,29	418,43	28,97	-16,22	S	-156,22	S
Non-Profit Institutions serving Households	1	0,01	0,09	0,01	1	0,01	0,49	0,03	-0,41	S	-1,66	S
Non-Financial corporations	38	0,33	15,94	1,10	44	0,34	35,02	2,42	-19,09	S	429,06	B
Central Government	1	0,01	0,49	0,03	1	0,01	0,06	0,00	0,43	B	8,61	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	4	0,03	53,23	3,68	7	0,05	39,89	2,76	13,34	B	-73,76	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	1	0,01	0,78	0,05	-0,78	S	-0,78	S
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	4	0,03	0,07	0,00	4	0,03	0,16	0,01	-0,09	S	1,04	B
TOTALS	11.565	100,00	1.444,54	100,00	12.758	100,00	1.444,54	100,00				



ATHEXGROUP
Athens Exchange Group

2.3.3 Analysis of the Monthly Trading Activity in FTSE / Athex Large Cap per Investor Category

FTSE/Athex Large Cap (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
Investors' Categories	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	8.963	96,12	553,48	39,56	10.167	96,56	602,65	43,07	-49,17	S	128,22	B
Households	8.793	94,29	204,41	14,61	9.990	94,88	222,80	15,92	-18,40	S	-65,37	S
Insurance Corporations	2	0,02	4,05	0,29	5	0,05	8,56	0,61	-4,51	S	11,85	B
Pension funds	4	0,04	8,53	0,61	3	0,03	10,27	0,73	-1,74	S	7,29	B
Money Market Funds (MMFs)	10	0,11	2,86	0,20	10	0,09	13,44	0,96	-10,58	S	61,68	B
Non-MMF Investment Funds	38	0,41	41,39	2,96	39	0,37	38,35	2,74	3,04	B	100,41	B
Deposit-taking corporations	6	0,06	38,01	2,72	9	0,09	52,16	3,73	-14,15	S	-45,69	S
Other Financial Intermediaries, except insurance corporations & pension funds	35	0,38	231,87	16,57	38	0,36	241,28	17,24	-9,41	S	-9,67	S
Non-Profit Institutions serving Households	2	0,02	0,23	0,02	3	0,03	0,14	0,01	0,09	B	1,87	B
Non-Financial corporations	73	0,78	22,12	1,58	69	0,66	15,26	1,09	6,86	B	66,26	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	1	0,01	0,38	0,03	-0,38	S	-0,40	S
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	358	3,84	845,70	60,44	359	3,41	796,44	56,92	49,26	B	-128,10	S
Households	225	2,41	10,41	0,74	231	2,19	11,19	0,80	-0,79	S	-8,97	S
Insurance Corporations	1	0,01	0,01	0,00	1	0,01	0,03	0,00	-0,01	S	-9,40	S
Pension funds	2	0,02	0,17	0,01	0	0,00	0,00	0,00	0,17	B	-2,21	S
Money Market Funds (MMFs)	7	0,08	2,29	0,16	7	0,07	6,16	0,44	-3,88	S	-21,97	S
Non-MMF Investment Funds	27	0,29	26,49	1,89	13	0,12	11,03	0,79	15,45	B	34,85	B
Deposit-taking corporations	28	0,30	331,62	23,70	24	0,23	274,54	19,62	57,08	B	86,76	B
Other Financial Intermediaries, except insurance corporations & pension funds	28	0,30	404,59	28,92	34	0,32	417,46	29,83	-12,87	S	-188,72	S
Non-Profit Institutions serving Households	1	0,01	0,09	0,01	1	0,01	0,49	0,04	-0,41	S	-3,26	S
Non-Financial corporations	34	0,36	16,36	1,17	39	0,37	36,29	2,59	-19,92	S	44,67	B
Central Government	1	0,01	0,49	0,04	1	0,01	0,06	0,00	0,43	B	8,61	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	4	0,04	53,18	3,80	7	0,07	38,40	2,74	14,78	B	-67,67	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	1	0,01	0,78	0,06	-0,78	S	-0,78	S
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	4	0,04	0,06	0,00	3	0,03	0,15	0,01	-0,09	S	-0,12	S
TOTALS	9.325	100,00	1.399,24	100,00	10.529	100,00	1.399,24	100,00				



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2.3.4 Analysis of the Monthly Trading Activity in FTSE / Athex Mid Cap per Investor Category

FTSE/Athex Mid Cap (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
Investors' Categories	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	3,279	95,79	27,22	93,61	2,924	95,93	26,28	90,39	0,94	B	-3,79	S
Households	3,212	93,84	18,05	62,07	2,855	93,67	15,55	53,47	2,50	B	4,59	B
Insurance Corporations	1	0,03	0,09	0,30	1	0,03	0,13	0,45	-0,04	S	0,23	B
Pension funds	2	0,06	1,17	4,03	2	0,07	0,32	1,10	0,85	B	1,44	B
Money Market Funds (MMFs)	2	0,06	0,15	0,52	3	0,10	0,40	1,37	-0,25	S	1,33	B
Non-MMF Investment Funds	13	0,38	1,39	4,78	18	0,59	2,40	8,26	-1,01	S	4,85	B
Deposit-taking corporations	2	0,06	0,01	0,05	4	0,13	0,92	3,18	-0,91	S	-3,01	S
Other Financial Intermediaries, except insurance corporations & pension funds	20	0,58	5,93	20,39	21	0,69	5,77	19,84	0,16	B	1,93	B
Non-Profit Institutions serving Households	1	0,03	0,01	0,03	1	0,03	0,01	0,03	0,00	S	0,03	B
Non-Financial corporations	26	0,76	0,42	1,44	19	0,62	0,79	2,70	-0,37	S	-15,16	S
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	144	4,21	1,86	6,39	123	4,04	2,79	9,61	-0,93	S	3,77	B
Households	110	3,21	0,52	1,79	83	2,72	0,55	1,88	-0,03	S	0,35	B
Insurance Corporations	1	0,03	0,06	0,20	0	0,00	0,00	0,00	0,06	B	0,07	B
Pension funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,21	S
Money Market Funds (MMFs)	0	0,00	0,00	0,00	3	0,10	0,27	0,93	-0,27	S	-1,06	S
Non-MMF Investment Funds	4	0,12	0,24	0,84	2	0,07	0,04	0,14	0,20	B	-0,05	S
Deposit-taking corporations	8	0,23	0,56	1,91	8	0,26	0,49	1,67	0,07	B	-0,89	S
Other Financial Intermediaries, except insurance corporations & pension funds	10	0,29	0,34	1,17	13	0,43	1,09	3,76	-0,75	S	-1,12	S
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Non-Financial corporations	9	0,26	0,10	0,34	12	0,39	0,24	0,81	-0,14	S	7,39	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	2	0,06	0,04	0,15	2	0,07	0,12	0,40	-0,08	S	-0,69	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	0	0,00	0,00	0,00	1	0,03	0,00	0,00	0,00	S	0,02	B
TOTALS	3,423	100,00	29,08	100,00	3,048	100,00	29,08	100,00				



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2.3.5 Analysis of the Monthly Trading Activity in FTSE / Athex Mid-Small Cap Factor-Weighted Index per Investor Category

FTSE/Athex Mid-Small Cap Factor-Weighted Index (01/10/2019-31/10/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	1,183	96,34	18,03	85,31	999	96,43	16,45	77,84	1,58	B	4,79	B
Households	1,143	93,08	14,12	66,80	965	93,15	13,93	65,90	0,19	B	-4,87	S
Insurance Corporations	1	0,08	0,02	0,08	1	0,10	0,05	0,22	-0,03	S	0,18	B
Pension funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,12	B
Money Market Funds (MMFs)	1	0,08	0,16	0,76	1	0,10	0,05	0,26	0,11	B	1,47	B
Non-MMF Investment Funds	19	1,55	2,29	10,85	15	1,45	1,33	6,31	0,96	B	9,12	B
Deposit-taking corporations	2	0,16	0,05	0,25	3	0,29	0,06	0,28	-0,01	S	-0,20	S
Other Financial Intermediaries, except insurance corporations & pension funds	10	0,81	0,93	4,42	8	0,77	0,96	4,53	-0,02	S	0,41	B
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Non-Financial corporations	7	0,57	0,46	2,16	6	0,58	0,07	0,35	0,38	B	-1,46	S
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,02	B
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	45	3,66	3,10	14,69	37	3,57	4,68	22,16	-1,58	S	-4,79	S
Households	13	1,06	0,10	0,47	11	1,06	0,12	0,58	-0,02	S	-5,70	S
Insurance Corporations	1	0,08	0,00	0,01	1	0,10	0,04	0,20	-0,04	S	0,09	B
Pension funds	0	0,00	0,00	0,00	1	0,10	0,02	0,08	-0,02	S	-0,25	S
Money Market Funds (MMFs)	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-1,26	S
Non-MMF Investment Funds	1	0,08	0,05	0,23	4	0,39	0,62	2,92	-0,57	S	-9,69	S
Deposit-taking corporations	6	0,49	0,09	0,42	5	0,48	0,15	0,72	-0,06	S	-1,81	S
Other Financial Intermediaries, except insurance corporations & pension funds	13	1,06	2,04	9,67	10	0,97	3,31	15,68	-1,27	S	10,70	B
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	1	0,10	0,18	0,86	-0,18	S	1,60	B
Non-Financial corporations	10	0,81	0,53	2,52	3	0,29	0,11	0,50	0,43	B	1,26	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	1	0,08	0,29	1,36	1	0,10	0,13	0,62	0,16	B	0,29	B
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	S
TOTALS	1,228	100,00	21,13	100,00	1,036	100,00	21,13	100,00				



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2.3.6 Analysis of the Monthly Trading Activity in FTSE / Athex Market Index per Investor Category

FTSE/Athex Market Index (01/11/2019-29/11/2019)	Buys				Sells				net		net	
	Active Shares		Transactions Value		Active Shares		Transactions Value		net		net	
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	10,477	96,18	582,53	40,73	11,516	96,55	630,73	44,10	-48,21	S	125,28	B
Households	10,295	94,51	224,06	15,67	11,331	95,00	239,91	16,77	-15,85	S	-60,22	S
Insurance Corporations	2	0,02	4,14	0,29	5	0,04	8,69	0,61	-4,55	S	12,06	B
Pension funds	4	0,04	9,70	0,68	3	0,03	10,59	0,74	-0,89	S	8,74	B
Money Market Funds (MMFs)	10	0,09	3,01	0,21	10	0,08	13,84	0,97	-10,83	S	63,01	B
Non-MMF Investment Funds	40	0,37	42,78	2,99	42	0,35	40,77	2,85	2,01	B	105,81	B
Deposit-taking corporations	6	0,06	38,02	2,66	9	0,08	53,08	3,71	-15,06	S	-49,04	S
Other Financial Intermediaries, except insurance corporations & pension funds	35	0,32	238,02	16,64	38	0,32	247,26	17,29	-9,25	S	-8,04	S
Non-Profit Institutions serving Households	2	0,02	0,24	0,02	3	0,03	0,15	0,01	0,09	B	1,90	B
Non-Financial corporations	83	0,76	22,54	1,58	74	0,62	16,05	1,12	6,49	B	51,47	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,01	S
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	1	0,01	0,38	0,03	-0,38	S	-0,41	S
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	412	3,78	847,68	59,27	407	3,41	799,38	55,89	48,30	B	-125,17	S
Households	275	2,52	10,98	0,77	269	2,26	11,76	0,82	-0,78	S	-8,54	S
Insurance Corporations	1	0,01	0,10	0,01	1	0,01	0,03	0,00	0,07	B	-9,24	S
Pension funds	2	0,02	0,17	0,01	0	0,00	0,00	0,00	0,17	B	-2,40	S
Money Market Funds (MMFs)	7	0,06	2,29	0,16	7	0,06	6,44	0,45	-4,15	S	-23,03	S
Non-MMF Investment Funds	29	0,27	26,73	1,87	15	0,13	11,08	0,77	15,65	B	35,13	B
Deposit-taking corporations	28	0,26	332,21	23,23	25	0,21	275,04	19,23	57,17	B	85,33	B
Other Financial Intermediaries, except insurance corporations & pension funds	30	0,28	404,94	28,31	36	0,30	418,62	29,27	-13,68	S	-190,57	S
Non-Profit Institutions serving Households	1	0,01	0,09	0,01	1	0,01	0,49	0,03	-0,41	S	-3,05	S
Non-Financial corporations	34	0,31	16,46	1,15	44	0,37	36,58	2,56	-20,11	S	51,71	B
Central Government	1	0,01	0,49	0,03	1	0,01	0,06	0,00	0,43	B	8,61	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	4	0,04	53,22	3,72	7	0,06	38,52	2,69	14,70	B	-68,33	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	1	0,01	0,78	0,05	-0,78	S	-0,78	S
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	4	0,04	0,06	0,00	4	0,03	0,15	0,01	-0,09	S	-0,11	S
TOTALS	10,893	100,00	1,430,26	100,00	11,927	100,00	1,430,26	100,00				



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2.3.7 Analysis of the Monthly Trading Activity in FTSE / Athex Global Traders Index Plus per Investor Category

FTSE/Athex Global Traders Index Plus (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value		net		net (2019)	
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	4,555	96,24	104,57	47,45	4,157	96,74	101,58	46,09	2,99	B	75,21	B
Households	4,445	93,92	47,91	21,74	4,043	94,09	40,11	18,20	7,80	B	27,48	B
Insurance Corporations	2	0,04	1,94	0,88	4	0,09	3,29	1,49	-1,36	S	15,71	B
Pension funds	2	0,04	3,57	1,62	3	0,07	1,01	0,46	2,56	B	-1,45	S
Money Market Funds (MMFs)	5	0,11	0,81	0,37	6	0,14	1,24	0,56	-0,43	S	9,49	B
Non-MMF Investment Funds	31	0,65	10,39	4,71	33	0,77	9,68	4,39	0,71	B	30,59	B
Deposit-taking corporations	5	0,11	5,30	2,40	6	0,14	10,85	4,92	-5,55	S	-11,71	S
Other Financial Intermediaries, except insurance corporations & pension funds	28	0,59	32,82	14,89	30	0,70	32,89	14,92	-0,06	S	6,81	B
Non-Profit Institutions serving Households	2	0,04	0,12	0,05	3	0,07	0,02	0,01	0,10	B	1,95	B
Non-Financial corporations	35	0,74	1,71	0,78	29	0,67	2,50	1,13	-0,78	S	-3,70	S
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,05	B
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	176	3,72	115,81	52,55	140	3,26	118,81	53,91	-2,99	S	-75,17	S
Households	97	2,05	1,77	0,80	60	1,40	1,42	0,64	0,35	B	2,46	B
Insurance Corporations	1	0,02	0,03	0,01	1	0,02	0,03	0,01	0,00	B	0,06	B
Pension funds	1	0,02	0,03	0,02	0	0,00	0,00	0,00	0,03	B	-1,73	S
Money Market Funds (MMFs)	1	0,02	0,14	0,06	3	0,07	4,84	2,19	-4,70	S	0,71	B
Non-MMF Investment Funds	11	0,23	2,45	1,11	10	0,23	1,15	0,52	1,30	B	-18,88	S
Deposit-taking corporations	16	0,34	46,03	20,88	18	0,42	49,20	22,32	-3,17	S	-74,44	S
Other Financial Intermediaries, except insurance corporations & pension funds	21	0,44	54,49	24,73	25	0,58	51,02	23,15	3,47	B	37,35	B
Non-Profit Institutions serving Households	1	0,02	0,09	0,04	1	0,02	0,49	0,22	-0,41	S	-2,51	S
Non-Financial corporations	23	0,49	2,05	0,93	17	0,40	3,54	1,61	-1,49	S	-24,41	S
Central Government	1	0,02	0,49	0,22	1	0,02	0,06	0,03	0,43	B	2,69	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	3	0,06	8,25	3,74	3	0,07	6,29	2,85	1,96	B	4,32	B
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	1	0,02	0,78	0,35	-0,78	S	-0,78	S
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	2	0,04	0,00	0,00	0	0,00	0,00	0,00	0,00	B	-0,04	S
TOTALS	4,733	100,00	220,39	100,00	4,297	100,00	220,39	100,00				



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2.3.8 Analysis of the Monthly Trading Activity in Medium & Small Price Index per Investor Category

Medium & Small Cap Price Index (01/11/2019-29/11/2019)	Buys				Sells				net		net (2019)	
	Active Shares		Transactions Value		Active Shares		Transactions Value					
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)		(mil. €)	
I. Domestic Investors	822	96,93	2,93	50,57	927	97,89	5,38	92,83	-2,45	S	-9,15	S
Households	802	94,58	2,30	39,63	903	95,35	3,60	62,05	-1,30	S	-9,68	S
Insurance Corporations	0	0,00	0,00	0,00	1	0,11	0,01	0,17	-0,01	S	0,27	B
Pension funds	1	0,12	0,01	0,25	0	0,00	0,00	0,00	0,01	B	0,01	B
Money Market Funds (MMFs)	1	0,12	0,00	0,03	1	0,11	0,02	0,35	-0,02	S	-0,05	S
Non-MMF Investment Funds	10	1,18	0,36	6,21	12	1,27	1,47	25,36	-1,11	S	0,26	B
Deposit-taking corporations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	-0,28	S
Other Financial Intermediaries, except insurance corporations & pension funds	6	0,71	0,24	4,20	7	0,74	0,28	4,76	-0,03	S	0,52	B
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	S
Non-Financial corporations	2	0,24	0,02	0,26	3	0,32	0,01	0,15	0,01	B	-0,20	S
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
II. Foreign Investors	25	2,95	2,86	49,43	20	2,11	0,42	7,17	2,45	B	9,15	B
Households	14	1,65	0,21	3,65	8	0,84	0,09	1,56	0,12	B	-5,74	S
Insurance Corporations	1	0,12	0,10	1,80	0	0,00	0,00	0,00	0,10	B	0,18	B
Pension funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Money Market Funds (MMFs)	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,07	B
Non-MMF Investment Funds	0	0,00	0,00	0,00	1	0,11	0,00	0,01	0,00	S	-0,01	S
Deposit-taking corporations	2	0,24	0,03	0,58	3	0,32	0,04	0,65	0,00	S	-1,14	S
Other Financial Intermediaries, except insurance corporations & pension funds	3	0,35	2,48	42,88	5	0,53	0,21	3,67	2,27	B	13,27	B
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Non-Financial corporations	4	0,47	0,02	0,36	2	0,21	0,06	1,08	-0,04	S	2,84	B
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Institutions and bodies of the European Union	1	0,12	0,01	0,16	1	0,11	0,01	0,20	0,00	S	-0,32	S
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	-	0,00	B
III. Other Not Identified	1	0,12	0,00	0,00	0	0,00	0,00	0,00	0,00	B	0,00	S
TOTALS	848	100,00	5,79	100,00	947	100,00	5,79	100,00				

Note for section tables: Data processing for indices does not take under consideration transactions of rights arising from the securities.



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2.3.9 Analysis of the Greek Investors Trading Activity based on Geographical Allocation

Greek investors	Buys				Sells				net	
(01/11/2019-29/11/2019)	Active Shares		Transactions Value		Active Shares		Transactions Value			
Regions	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)	
Attica	6.032	51,96	526,97	83,10	6.876	52,51	574,10	84,02	-47,14	S
Central Macedonia	1.267	10,91	23,25	3,67	1.374	10,49	24,66	3,61	-1,41	S
Crete	439	3,78	13,29	2,10	507	3,87	9,33	1,37	3,95	B
Thessaly	503	4,33	9,70	1,53	546	4,17	8,41	1,23	1,29	B
East Macedonia - Thrace	286	2,46	4,28	0,67	323	2,47	3,84	0,56	0,44	B
Peloponnese	398	3,43	6,80	1,07	486	3,71	8,00	1,17	-1,20	S
Stereia Ellada	220	1,90	3,56	0,56	274	2,09	4,07	0,60	-0,52	S
West Greece	371	3,20	5,26	0,83	404	3,09	5,57	0,82	-0,31	S
Epirus	199	1,71	2,90	0,46	250	1,91	3,30	0,48	-0,40	S
West Macedonia	198	1,71	2,83	0,45	230	1,76	2,53	0,37	0,31	B
South Aegean	174	1,50	3,50	0,55	198	1,51	3,96	0,58	-0,46	S
Ionian Islands	130	1,12	2,39	0,38	158	1,21	2,89	0,42	-0,50	S
North Aegean	92	0,79	1,13	0,18	106	0,81	1,16	0,17	-0,02	S
Invalid Postal Codes	1.299	11,19	28,29	4,46	1.362	10,40	31,46	4,60	-3,17	S
Total	11.608	100,00	634,14	100,00	13.094	100,00	683,28	100,00	-49,14	S

Notes:

1. Geographical allocation of Investor Shares is based upon segregation of Greece in districts, according to the Ministry of Internal Affairs data.
2. The above clarification concerns Investor Shares owned by Greek nationals, according to their relevant statement and based on the postal data codes declared in the Investor Shares.
3. Districts appear in declining order upon transactions value.

2.3.10 Analysis of the Trading Activity of Investors without Identified Nationality

Other (not identified) (01/11/2019-29/11/2019)	Buys				Sells				net
	Active Shares		Transactions Value		Active Shares		Transactions Value		
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	
Countries									(mil. €)
Other not Identified	4	-	0,07	-	4	-	0,16	-	-0,10 S

Notes:

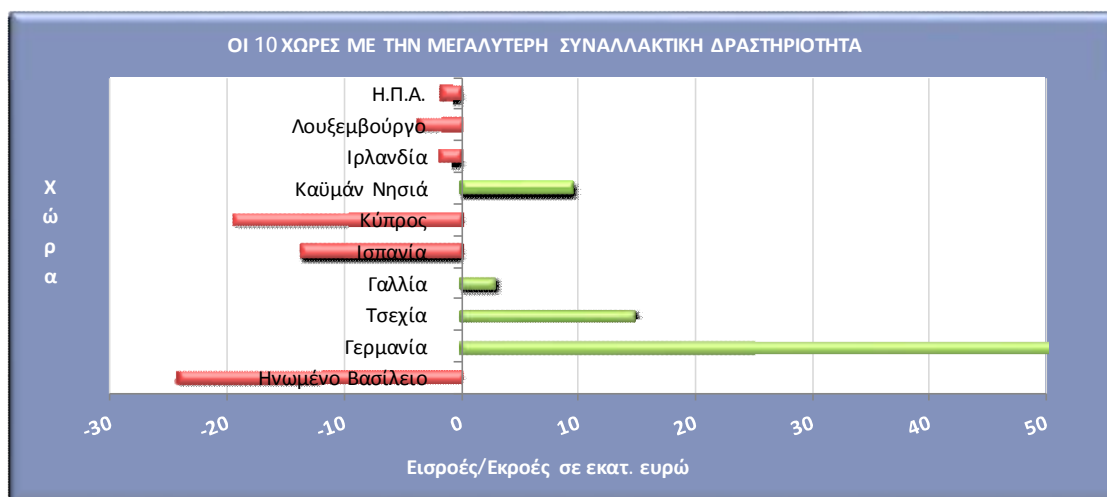
1. The above classification concerns Investor Shares that have not declared any tax nationality
2. The above data coincide with category III Other Investors of paragraph 1.3.1 Analysis of the Monthly Investor's Mobility in ATHEX based on Investor Type.



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2.3.11 Analysis of the Foreign Investors Trading Activity based on Geographical Allocation

Foreign investors (01/11/2019-29/11/2019)	Buys				Sells				net	
	Active Shares		Transactions Value		Active Shares		Transactions Value			
	Countries	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)
The top 30 countries with the biggest transactions value	434	98,64	859,40	100,00	429	99,08	810,19	100,00	49,21	B
United Kingdom	28	6,36	418,75	48,72	35	8,08	443,12	54,69	-24,36	S
Germany	6	1,36	177,70	20,68	8	1,85	89,93	11,10	87,77	B
Czech Republic	2	0,45	81,99	9,54	2	0,46	66,91	8,26	15,08	B
France	11	2,50	75,46	8,78	11	2,54	72,36	8,93	3,10	B
Spain	1	0,23	28,58	3,33	1	0,23	42,24	5,21	-13,66	S
Cyprus	289	65,68	17,04	1,98	278	64,20	36,60	4,52	-19,56	S
Cayman Islands	10	2,27	21,97	2,56	8	1,85	12,25	1,51	9,73	B
Ireland	4	0,91	15,69	1,83	4	0,92	17,63	2,18	-1,95	S
Luxembourg	18	4,09	5,93	0,69	15	3,46	9,79	1,21	-3,86	S
United States	22	5,00	5,25	0,61	14	3,23	7,03	0,87	-1,77	S
Marshall Islands	5	1,14	0,85	0,10	7	1,62	7,35	0,91	-6,51	S
Switzerland	5	1,14	2,66	0,31	7	1,62	1,82	0,22	0,85	B
Bermuda Islands	1	0,23	2,40	0,28	0	0,00	0,00	0,00	2,40	B
Austria	2	0,45	1,92	0,22	2	0,46	0,00	0,00	1,92	B
Canada	2	0,45	0,96	0,11	1	0,23	0,78	0,10	0,18	B
Liberia	7	1,59	0,48	0,06	7	1,62	0,72	0,09	-0,24	S
Bulgary	5	1,14	0,47	0,06	6	1,39	0,50	0,06	-0,02	S
United Arab Emirates	2	0,45	0,51	0,06	2	0,46	0,08	0,01	0,43	B
Turkey	4	0,91	0,18	0,02	3	0,69	0,25	0,03	-0,06	S
Guernsey	1	0,23	0,14	0,02	1	0,23	0,21	0,03	-0,07	S
Principality of Monaco	1	0,23	0,17	0,02	1	0,23	0,13	0,02	0,03	B
Panama	2	0,45	0,11	0,01	4	0,92	0,11	0,01	0,00	B
Italy	1	0,23	0,06	0,01	2	0,46	0,08	0,01	-0,02	S
Holland	1	0,23	0,00	0,00	2	0,46	0,13	0,02	-0,13	S
Australia	1	0,23	0,00	0,00	4	0,92	0,08	0,01	-0,08	S
Seychelles	1	0,23	0,08	0,01	0	0,00	0,00	0,00	0,08	B
British Virgin Islands	0	0,00	0,00	0,00	1	0,23	0,05	0,01	-0,05	S
Senegal	1	0,23	0,01	0,00	1	0,23	0,02	0,00	-0,01	S
Ukraine	1	0,23	0,01	0,00	1	0,23	0,01	0,00	0,00	B
Denmark	0	0,00	0,00	0,00	1	0,23	0,02	0,00	-0,02	S
Other Countries	6	1,36	0,03	0,00	4	0,92	0,01	0,00	0,03	B
Total	440	100,00	859,43	100,00	433	100,00	810,20	100,00	49,23	B
Total EU without Greece	369	83,86	823,60	95,83	369	85,22	779,31	96,19	44,29	A
Non EU Countries	71	16,14	35,83	4,17	64	14,78	30,89	3,81	4,94	A



Notes:

- The above clarification concerns Investor Shares with other nationalities excluding Greek.
- The above clarification is done according to the countries' codes in ISO 3166-1:1997.
- Countries appear in declining order upon transactions value.

3 Investors' Participation

3.1 Equities – Data of November 2019

3.1.1 Total Listed Equities and Main Categories

Capitalization (Data of: 29/11/2019)	Total of Listed Equities						Main Market					
	Shares balanced		Capitalization (incl HFSF)		Capitalization (excl HFSF)		Shares balanced		Capitalization (incl HFSF)		Capitalization (excl HFSF)	
	Number	%	(mil. €)	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)	%
Investors' Categories												
I. Domestic Investors	549,524	98,18	16,527,17	33,85	14,651,62	31,20	480,805	3,72	15,705,81	33,57	13,830,26	30,79
Households	546,347	97,61	7,336,76	15,03	7,336,76	15,63	477,983	3,70	6,873,40	14,69	6,873,40	15,30
Insurance Corporations	48	0,01	175,80	0,36	175,80	0,37	48	0,00	171,62	0,37	171,62	0,38
Pension funds	14	0,00	145,36	0,30	145,36	0,31	14	0,00	139,47	0,30	139,47	0,31
Money Market Funds (MMFs)	19	0,00	676,80	1,39	676,80	1,44	16	0,00	644,54	1,38	644,54	1,44
Non-MMF Investment Funds	91	0,02	1,095,02	2,24	1,095,02	2,33	87	0,00	1,054,51	2,25	1,054,51	2,35
Deposit-taking corporations	35	0,01	244,28	0,50	244,28	0,52	30	0,00	204,45	0,44	204,45	0,46
Other Financial Intermediaries, except insurance corporations & pension funds	118	0,02	178,95	0,37	178,95	0,38	102	0,00	175,21	0,37	175,21	0,39
Non-Profit Institutions serving Households	539	0,10	247,32	0,51	247,32	0,53	484	0,00	99,56	0,21	99,56	0,22
Non-Financial corporations	2,055	0,37	3,391,25	6,95	3,391,25	7,22	1,824	0,01	3,314,52	7,08	3,314,52	7,38
Central Government	38	0,01	305,36	0,63	305,36	0,65	35	0,00	305,08	0,65	305,08	0,68
Local Government Organizations	27	0,00	0,75	0,00	0,75	0,00	21	0,00	0,75	0,00	0,75	0,00
Social Security Funds	35	0,01	853,70	1,75	853,70	1,82	34	0,00	846,90	1,81	846,90	1,89
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	0,00
Other Domestic Investors	157	0,03	0,27	0,00	0,27	0,00	126	0,00	0,24	0,00	0,24	0,00
Hellenic Financial Stability Fund (HFSF)	1	0,00	1,875,55	3,84			1	0,00	1,875,55	4,01		0,00
II. Foreign Investors	10,032	1,79	32,288,43	66,12	32,288,43	68,77	9,067	0,07	31,084,41	66,43	31,084,41	69,21
Households	6,605	1,18	441,09	0,90	441,09	0,94	5,823	0,05	381,42	0,82	381,42	0,85
Insurance Corporations	73	0,01	2,564,59	5,25	2,564,59	5,46	64	0,00	2,561,65	5,47	2,561,65	5,70
Pension funds	309	0,06	1,331,53	2,73	1,331,53	2,84	303	0,00	1,309,60	2,80	1,309,60	2,92
Money Market Funds (MMFs)	502	0,09	2,801,60	5,74	2,801,60	5,97	491	0,00	2,765,41	5,91	2,765,41	6,16
Non-MMF Investment Funds	1,153	0,21	8,546,54	17,50	8,546,54	18,20	1,110	0,01	8,431,77	18,02	8,431,77	18,77
Deposit-taking corporations	450	0,08	3,166,31	6,48	3,166,31	6,74	435	0,00	3,099,97	6,63	3,099,97	6,90
Other Financial Intermediaries, except insurance corporations & pension funds	227	0,04	2,569,52	5,26	2,569,52	5,47	209	0,00	2,462,99	5,26	2,462,99	5,48
Non-Profit Institutions serving Households	30	0,01	64,07	0,13	64,07	0,14	29	0,00	63,94	0,14	63,94	0,14
Non-Financial corporations	598	0,11	9,454,55	19,36	9,454,55	20,14	522	0,00	8,697,37	18,59	8,697,37	19,36
Central Government	26	0,00	941,57	1,93	941,57	2,01	25	0,00	911,63	1,95	911,63	2,03
Local Government Organizations	14	0,00	31,91	0,07	31,91	0,07	14	0,00	31,91	0,07	31,91	0,07
Social Security Funds	26	0,00	106,35	0,22	106,35	0,23	25	0,00	99,74	0,21	99,74	0,22
Institutions and bodies of the European Union	8	0,00	176,24	0,36	176,24	0,38	6	0,00	174,85	0,37	174,85	0,39
Non-member Countries & International Organisations Non-resident of EU	9	0,00	92,54	0,19	92,54	0,20	9	0,00	92,14	0,20	92,14	0,21
Other Foreign Investors	2	0,00	0,01	0,00	0,01	0,00	2	0,00	0,01	0,00	0,01	0,00
III. Other Not Identified	182	0,03	13,97	0,03	13,97	0,03	12,426,859	96,21	0,00	0,00	0,00	0,00
TOTALS	559,738	100,00	48,829,57	100,00	46,954,02	100,00	12,916,731	100,00	46,790,22	100,00	44,914,67	100,00

Note : The capitalization of listed companies that are also traded in foreign exchanges is based on the number of items that are registered in Hellenic Central Securities Depository (for example COCA-COLA HBC AG, VIOHALCO SA/NV, CENERGY HOLDINGS).

3.1.2 FTSE / Athex Large Cap & Average Number of Investors

Capitalization (Data of: 29/11/2019)	FTSE/Athex Large Cap					
	Shares balanced		Capitalization (incl HFSF)		Capitalization (excl HFSF)	
	Number	%	(mil. €)	%	(mil. €)	%
Investors' Categories						
I. Domestic Investors	366,374	98,09	10.718,11	29,16	8.842,56	25,35
Households	364.201	97,51	3.552,97	9,67	3.552,97	10,19
Insurance Corporations	40	0,01	164,77	0,45	164,77	0,47
Pension funds	13	0,00	139,74	0,38	139,74	0,40
Money Market Funds (MMFs)	14	0,00	620,65	1,69	620,65	1,78
Non-MMF Investment Funds	70	0,02	804,08	2,19	804,08	2,31
Deposit-taking corporations	27	0,01	83,76	0,23	83,76	0,24
Other Financial Intermediaries, except insurance corporations & pension funds	68	0,02	94,07	0,26	94,07	0,27
Non-Profit Institutions serving Households	408	0,11	160,29	0,44	160,29	0,46
Non-Financial corporations	1.368	0,37	2.319,77	6,31	2.319,77	6,65
Central Government	30	0,01	290,71	0,79	290,71	0,83
Local Government Organizations	16	0,00	0,43	0,00	0,43	0,00
Social Security Funds	32	0,01	611,13	1,66	611,13	1,75
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0,00	0,00
Other Domestic Investors	86	0,02	0,20	0,00	0,20	0,00
Hellenic Financial Stability Fund (HFSF)	1	0,00	1.875,55	5,10		
II. Foreign Investors	6.983	1,87	26.024,39	70,81	26.024,39	74,62
Households	4.026	1,08	311,51	0,85	311,51	0,89
Insurance Corporations	60	0,02	647,43	1,76	647,43	1,86
Pension funds	300	0,08	1.311,54	3,57	1.311,54	3,76
Money Market Funds (MMFs)	478	0,13	2.745,64	7,47	2.745,64	7,87
Non-MMF Investment Funds	1.076	0,29	8.096,75	22,03	8.096,75	23,22
Deposit-taking corporations	406	0,11	2.855,24	7,77	2.855,24	8,19
Other Financial Intermediaries, except insurance corporations & pension funds	176	0,05	2.050,20	5,58	2.050,20	5,88
Non-Profit Institutions serving Households	27	0,01	52,35	0,14	52,35	0,15
Non-Financial corporations	354	0,09	6.656,98	18,11	6.656,98	19,09
Central Government	25	0,01	935,97	2,55	935,97	2,68
Local Government Organizations	14	0,00	31,03	0,08	31,03	0,09
Social Security Funds	25	0,01	105,78	0,29	105,78	0,30
Institutions and bodies of the European Union	5	0,00	131,60	0,36	131,60	0,38
Non-member Countries & International Organisations Non-resident of EU	9	0,00	92,38	0,25	92,38	0,26
Other Foreign Investors	2	0,00	0,01	0,00	0,01	0,00
III. Other Not Identified	148	0,04	9,20	0,03	9,20	0,03
TOTALS	373.505	100,00	36.751,70	100,00	34.876,15	100,00

Average Number of Investors for ISINS that composite FTSE/Athex Large Cap			
ISIN	ISIN Description	Investors' Average (01/11/2019 - 29/11/2019)	Investors' Average 2019
		Number	Number
GRS015003007	ALPHA BANK S.A. (CR)	113.132	115.050
BE0974303357	CENERGY HOLDINGS S.A. (CB)	8.507	8.603
CH0198251305	COCA-COLA HBC AG	3.839	3.041
GRS096003009	FOURLIS S.A.(CR)	2.778	2.831
GRS282183003	JUMBO S.A. (CR)	4.666	4.640
GRS245213004	LAMDA DEVELOPMENT S.A. (CR)	4.124	3.522
BE0974271034	VIOHALCO (CB)	16.478	16.752
BE0974338700	TITAN CEMENT INTERNATIONAL S.A. (CB)	6.341	5.449
GRS518003009	ADMIE (IPTO) HOLDING S.A. -CR	20.232	20.430
GRS495003006	AEGEAN AIRLINES (CR)	39.598	40.185
GRS145003000	GEK TERNA HOLDING, REAL ESTATE, CONSTRUCTION (CR)	9.597	9.813
GRS204003008	GR. SARANTIS S.A.(CR)	1.782	1.764
GRS434003000	PPC S.A. (CR)	20.988	21.116
GRS003003035	NATIONAL BANK OF GREECE S.A. (CR)	109.837	111.687
GRS191213008	ELLAKTOR S.A. (CR)	24.138	22.961
GRS298343005	HELLENIC PETROLEUM S.A. (CR)	72.753	74.210
GRS395363005	HELLENIC EXCHANGES S.A. HOLDING (CR)	10.765	10.577
GRS426003000	MOTOR OIL (HELLAS) REFINERIES SA (CR)	10.148	9.736
GRS393503008	MYTILINEOS HOLDINGS S.A. (CR)	32.374	32.031
GRS470003013	P.P.A. S.A. (CR)	5.069	5.050
GRS419003009	OPAP S.A. (CR)	31.551	31.457
GRS260333000	HELLENIC TELECOM. ORGANISATION (CR)	81.111	83.382
GRS496003005	TERNA ENERGY S.A. (CR)	13.886	13.567
GRS323003012	EUROBANK ERGASIAS S.A. (CR)	43.819	42.239
GRS014003024	PIRAEUS BANK S.A. (CR)	27.169	27.828
Average Num of Investors in FTSE/Athex Large Cap		28.587	28.195

Notes: (1) ISIN codes that comprise the FTSE/ATHEX Large Cap refer to the index composition on 29/11/2019.

(2) Investor averages on FTSE/ATHEX Large Cap (Monthly & Yearly) have been calculated for all ISINS that were included in the index composition for the respected period.

3.1.3 FTSE / Athex Indices

Capitalization (Data of: 29/11/2019)	FTSE/Athex Mid Cap				FTSE/Athex Mid-Small Cap Factor-Weighted Index				FTSE/Athex Market Index						FTSE/Athex Global Traders Index Plus			
	Shares balanced		Capitalization		Shares balanced		Capitalization		Shares balanced		Capitalization		Capitalization		Shares balanced		Capitalization	
	Number	%	(mil. €)	%	Number	%	(mil. €)	%	Number	%	(mil. €)	%	(mil. €)	%	Number	%	(mil. €)	%
Investors' Categories																		
I. Domestic Investors	128.217	4,44	1.408,34	77,46	38.131	63,58	1.167,15	54,84	425.356	3,43	12.237,03	31,61	10.361,48	28,13	189.842	2,40	4.093,78	33,97
Households	127.542	4,41	1.031,76	56,74	37.931	63,25	845,13	39,71	422.837	3,41	4.687,42	12,11	4.687,42	12,72	189.179	2,39	2.299,46	19,08
Insurance Corporations	16	0,00	1,49	0,08	9	0,02	5,19	0,24	44	0,00	166,26	0,43	166,26	0,45	19	0,00	49,75	0,41
Pension funds	7	0,00	2,01	0,11	5	0,01	1,90	0,09	14	0,00	141,75	0,37	141,75	0,38	8	0,00	32,90	0,27
Money Market Funds (MMFs)	9	0,00	13,27	0,73	6	0,01	21,98	1,03	14	0,00	633,98	1,64	633,98	1,72	14	0,00	195,42	1,62
Non-MMF Investment Funds	49	0,00	71,44	3,93	37	0,06	44,27	2,08	82	0,00	876,64	2,26	876,64	2,38	57	0,00	268,84	2,23
Deposit-taking corporations	17	0,00	33,14	1,82	2	0,00	4,48	0,21	30	0,00	116,90	0,30	116,90	0,32	15	0,00	18,96	0,16
Other Financial Intermediaries, except insurance corporations & pension funds	51	0,00	3,82	0,21	17	0,03	1,36	0,06	85	0,00	98,09	0,25	98,09	0,27	61	0,00	25,08	0,21
Non-Profit Institutions serving Households	23	0,00	0,42	0,02	7	0,01	0,04	0,00	416	0,00	160,71	0,42	160,71	0,44	24	0,00	5,76	0,05
Non-Financial corporations	465	0,02	86,53	4,76	105	0,18	238,32	11,20	1.650	0,01	2.412,80	6,23	2.412,80	6,55	398	0,01	1.101,80	9,14
Central Government	4	0,00	2,22	0,12	2	0,00	0,55	0,03	31	0,00	292,93	0,76	292,93	0,80	4	0,00	6,41	0,05
Local Government Organizations	1	0,00	0,00	0,00	1	0,00	0,00	0,00	16	0,00	0,43	0,00	0,43	0,00	3	0,00	0,20	0,00
Social Security Funds	8	0,00	162,23	8,92	3	0,01	3,93	0,18	33	0,00	773,35	2,00	773,35	2,10	14	0,00	89,14	0,74
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	0,00	0	0,00	0,00	0,00
Other Domestic Investors	25	0,00	0,01	0,00	6	0,01	0,00	0,00	103	0,00	0,21	0,00	0,21	0,00	46	0,00	0,05	0,00
Hellenic Financial Stability Fund (HFSF)									1	0,00	1.875,55	4,84						
II. Foreign Investors	2.016	0,07	409,92	22,54	563	0,94	961,28	45,16	8.226	0,07	26.475,24	68,39	26.475,24	71,87	3.647	0,05	7.955,80	66,03
Households	1.630	0,06	18,60	1,02	380	0,63	3,06	0,14	5.125	0,04	332,65	0,86	332,65	0,90	1.914	0,02	191,40	1,59
Insurance Corporations	6	0,00	1,85	0,10	2	0,00	0,13	0,01	62	0,00	649,37	1,68	649,37	1,76	30	0,00	43,09	0,36
Pension funds	15	0,00	3,89	0,21	13	0,02	3,15	0,15	302	0,00	1.315,43	3,40	1.315,43	3,57	211	0,00	290,72	2,41
Money Market Funds (MMFs)	29	0,00	10,97	0,60	21	0,04	4,59	0,22	485	0,00	2.756,61	7,12	2.756,61	7,48	305	0,00	789,69	6,55
Non-MMF Investment Funds	57	0,00	32,40	1,78	47	0,08	276,67	13,00	1.090	0,01	8.152,24	21,06	8.152,24	22,13	609	0,01	2.763,03	22,93
Deposit-taking corporations	97	0,00	55,66	3,06	47	0,08	42,45	1,99	411	0,00	2.911,94	7,52	2.911,94	7,90	203	0,00	763,24	6,33
Other Financial Intermediaries, except insurance corporations & pension funds	45	0,00	160,76	8,84	17	0,03	68,15	3,20	192	0,00	2.211,33	5,71	2.211,33	6,00	90	0,00	461,46	3,83
Non-Profit Institutions serving Households	2	0,00	1,97	0,11	3	0,01	9,95	0,47	29	0,00	54,32	0,14	54,32	0,15	16	0,00	14,81	0,12
Non-Financial corporations	129	0,00	123,41	6,79	31	0,05	553,10	25,99	449	0,00	6.794,18	17,55	6.794,18	18,44	204	0,00	2.365,32	19,63
Central Government	0	0,00	0,00	0,00	1	0,00	0,03	0,00	25	0,00	935,97	2,42	935,97	2,54	22	0,00	209,74	1,74
Local Government Organizations	2	0,00	0,03	0,00	0	0,00	0,00	0,00	14	0,00	31,05	0,08	31,05	0,08	10	0,00	22,36	0,19
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00	25	0,00	105,78	0,27	105,78	0,29	22	0,00	17,68	0,15
Institutions and bodies of the European Union	4	0,00	0,38	0,02	1	0,00	0,00	0,00	6	0,00	131,98	0,34	131,98	0,36	3	0,00	8,66	0,07
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	0	0,00	0,00	0,00	9	0,00	92,38	0,24	92,38	0,25	8	0,00	14,61	0,12
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00	2	0,00	0,01	0,00	0,01	0,00	0	0,00	0,00	0,00
III. Other Not Identified	2.759.835	95,49	0,00	0,00	21.278	35,48	0,00	0,00	11.961.719	96,50	0,00	0,00	0,00	0,00	7.732.158	97,56	0,00	0,00
TOTALS	2.890.068	100,00	1.818,26	100,00	59.972	100,00	2.128,43	100,00	12.395.301	100,00	38.712,27	100,00	36.836,72	100,00	7.925.647	100,00	12.049,58	100,00

3.1.4 Other Athex Indices

Capitalization (Data of: 29/11/2019)	Medium & Small Cap Price Index			
	Shares balanced		Capitalization	
	Number	%	(mil. €)	%
Investors' Categories				
I. Domestic Investors	36,676	75,65	350,50	71,48
Households	36,499	75,28	315,70	64,38
Insurance Corporations	10	0,02	0,98	0,20
Pension funds	4	0,01	0,03	0,01
Money Market Funds (MMFs)	4	0,01	1,48	0,30
Non-MMF Investment Funds	32	0,07	13,76	2,81
Deposit-taking corporations	2	0,00	7,50	1,53
Other Financial Intermediaries, except insurance corporations & pension funds	20	0,04	0,64	0,13
Non-Profit Institutions serving Households	6	0,01	0,00	0,00
Non-Financial corporations	91	0,19	10,32	2,10
Central Government	1	0,00	0,00	0,00
Local Government Organizations	0	0,00	0,00	0,00
Social Security Funds	1	0,00	0,10	0,02
Institutions and bodies of the European Union	0	0,00	0,00	0,00
Other Domestic Investors	6	0,01	0,00	0,00
Hellenic Financial Stability Fund (HFSF)				
II. Foreign Investors	419	0,86	139,83	28,52
Households	327	0,67	5,91	1,20
Insurance Corporations	1	0,00	0,19	0,04
Pension funds	0	0,00	0,00	0,00
Money Market Funds (MMFs)	3	0,01	0,12	0,02
Non-MMF Investment Funds	9	0,02	26,68	5,44
Deposit-taking corporations	31	0,06	2,90	0,59
Other Financial Intermediaries, except insurance corporations & pension funds	17	0,04	43,81	8,94
Non-Profit Institutions serving Households	0	0,00	0,00	0,00
Non-Financial corporations	31	0,06	60,22	12,28
Central Government	0	0,00	0,00	0,00
Local Government Organizations	0	0,00	0,00	0,00
Social Security Funds	0	0,00	0,00	0,00
Institutions and bodies of the European Union	0	0,00	0,00	0,00
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00
Other Foreign Investors	0	0,00	0,00	0,00
III. Other Not Identified	11,388	23,49	0,00	0,00
TOTALS	48,483	100,00	490,34	100,00

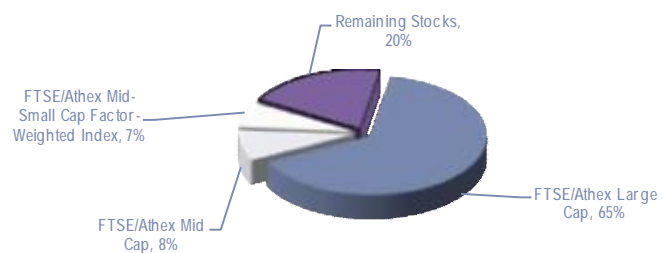
Notes:

1. Legal entities of uncooperative nations (law 4172/2013 article 65) are included in "Other Legal Entities" under Foreign Investors section.
2. The data processing for the participation of investors in equities that form indices does not take under consideration the participation percentage of the share in each separate Index.
3. Shares under suspension are included

3.1.5 Allocation of Investors Portfolio Value in Stocks Groups (Indices and ATHEX Categories)

Portfolio Value Allocation (Data of: 29/11/2019)	Total of Listed Equities	FTSE/Athex Large Cap		FTSE/Athex Mid Cap		FTSE/Athex Mid-Small Cap Factor-Weighted Index		Remaining Stocks	
	Value (millions €)	Value (millions €)	%	Value (millions €)	%	Value (millions €)	%	Value (millions €)	%
Greek investors	16.527,17	10.718,11	64,85	1.408,34	8,52	1.167,15	7,06	3.233,57	19,57
Foreign investors	32.288,43	26.024,39	80,60	409,92	1,27	961,28	2,98	4.892,83	15,15
Other (not identified)	13,97	0,00	0,00	0,00	0,00	0,00	0,00	13,97	100,00

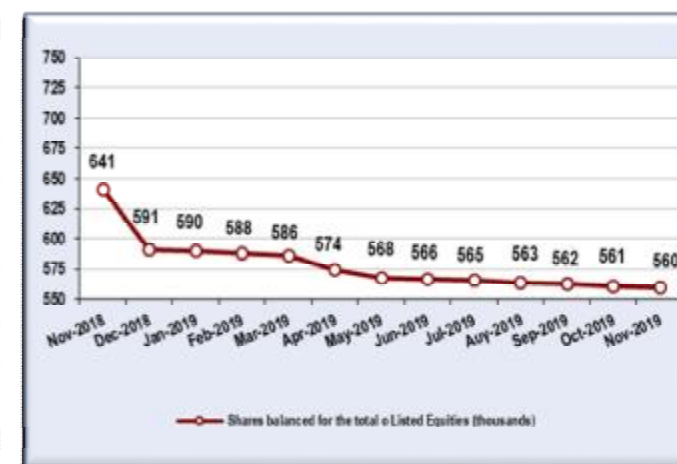
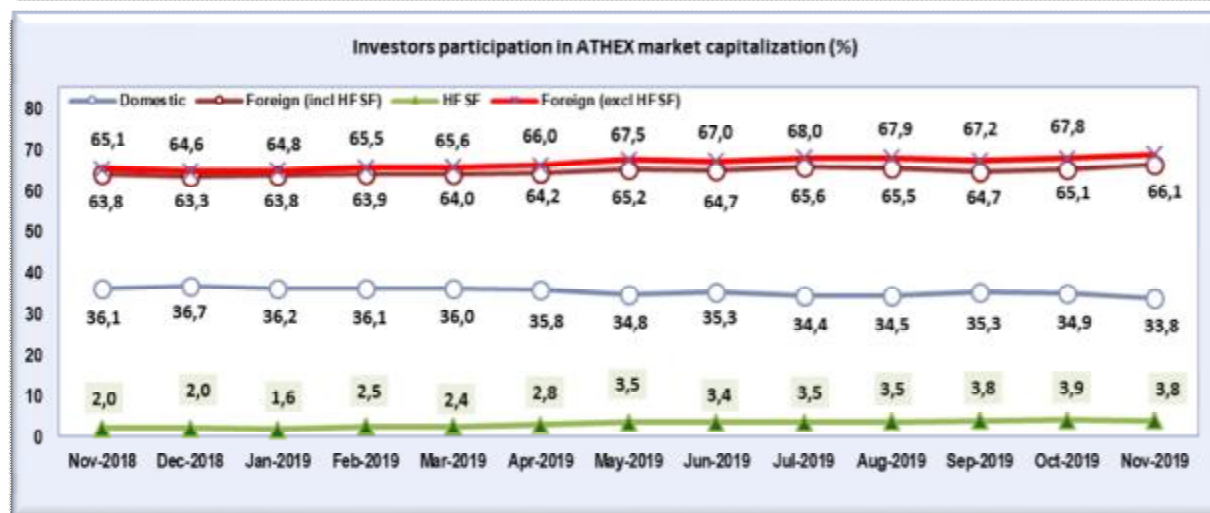
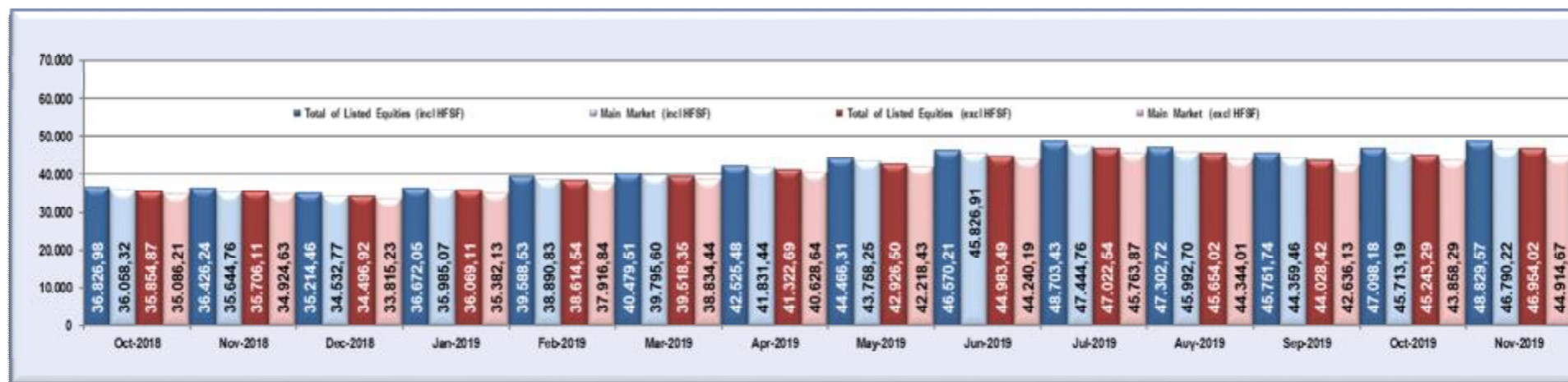
Portfolio Value Allocation - Greek investors



Portfolio Value Allocation - Foreign investors



3.1.7 Investors' Participation – Graphs



3.2 Investors' Geographical Allocation in Greece

Capitalization (29/11/2019)	Investors Geographical Allocation In Greece							
	Investor Shares						Capitalization	
	positive balance		zero balance		Total			
Regions	Number	%	Number	%	Number	%	Value (mil. €)	%
HFSF	1	0,00	0	0,00	1	0,00	1.854,89	10,09
Attica	251.122	45,70	369.193	43,64	620.315	44,45	13.117,83	71,36
Central Macedonia	75.658	13,77	130.860	15,47	206.518	14,80	579,24	3,15
Peloponnese	26.571	4,84	43.062	5,09	69.633	4,99	451,96	2,46
Crete	29.889	5,44	42.210	4,99	72.099	5,17	321,76	1,75
Thessaly	26.271	4,78	46.383	5,48	72.654	5,21	194,77	1,06
East Macedonia - Thrace	20.393	3,71	36.805	4,35	57.198	4,10	164,06	0,89
West Greece	20.692	3,77	39.471	4,67	60.163	4,31	93,51	0,51
Sierea Ellada	15.389	2,80	28.921	3,42	44.310	3,18	75,96	0,41
South Aegean	10.879	1,98	16.954	2,00	27.833	1,99	52,73	0,29
Epirus	13.597	2,47	21.435	2,53	35.032	2,51	52,05	0,28
West Macedonia	11.704	2,13	20.523	2,43	32.227	2,31	49,19	0,27
North Aegean	9.393	1,71	11.152	1,32	20.545	1,47	38,18	0,21
Ionian Islands	7.822	1,42	11.790	1,39	19.612	1,41	34,30	0,19
Invalid Postal Codes	30.145	5,49	27.201	3,22	57.346	4,11	1.301,74	7,08
Total	549.526	100,00	845.960	100,00	1.395.486	100,00	18.382,17	100,00

Notes:

1. Investor Shares with positive balance are those in which at least one security is credited.
2. Investor Shares with zero balance are those with no securities credited.
3. Geographical allocation of Investor Shares is based upon segregation of Greece in districts, according to the Ministry of Internal Affairs data.
4. The above clarification concerns Investor Shares owned by Greek nationals, according to their relevant statement and based on the postal data codes declared in the Investor Shares.
5. Districts appear in declining ordering upon capitalization.

3.3 Investors Without Identified Nationality

Capitalization (29/11/2019)	Investors Without Identified Registered Country					
	Investor Shares					Capitalization
	positive balance		zero balance		Total	
Countries	Number	%	Number	%	Number %	Value (mil. €) %
Other not Identified	182	-	843	-	1.025 -	13,97 -

Notes:

1. The above classification concerns Investor Shares that have not declared any registered country.
2. The above data coincide with category III Other Investors of paragraph 3.1.1. Total Listed Equities and Main Categories

3.4 Foreign Investors' Geographical Allocation

Capitalization (29/11/2019)	Foreign Investors' Geographical Allocation							
	Investor Shares						Capitalization	
	positive balance		zero balance		Total			
Countries	Number	%	Number	%	Number	%	Value (mil. €)	%
Top 30 countries with the biggest capitilization per country	8.225	81,99	51.215	88,56	59.440	87,59	31.754,22	98,35
United States	1.731	17,25	11.055	19,12	12.786	18,84	6.713,57	20,79
Luxembourg	269	2,68	2.926	5,06	3.195	4,71	4.482,80	13,88
Cyprus	2.759	27,50	15.677	27,11	18.436	27,17	4.111,22	12,73
Holland	70	0,70	309	0,53	379	0,56	3.360,20	10,41
Germany	361	3,60	2.029	3,51	2.390	3,52	3.199,34	9,91
United Kingdom	1.096	10,93	4.295	7,43	5.391	7,94	2.081,09	6,45
Cayman Islands	111	1,11	2.139	3,70	2.250	3,32	1.133,19	3,51
Ireland	170	1,69	1.353	2,34	1.523	2,24	678,70	2,10
Belgium	49	0,49	216	0,37	265	0,39	668,86	2,07
Switzerland	159	1,58	625	1,08	784	1,16	654,31	2,03
Canada	359	3,58	2.139	3,70	2.498	3,68	491,94	1,52
Singapore	25	0,25	170	0,29	195	0,29	406,30	1,26
British Virgin Islands	77	0,77	594	1,03	671	0,99	399,08	1,24
France	244	2,43	2.808	4,86	3.052	4,50	365,46	1,13
Norway	18	0,18	144	0,25	162	0,24	362,14	1,12
United Arab Emirates	26	0,26	79	0,14	105	0,15	357,18	1,11
Hong Kong	40	0,40	213	0,37	253	0,37	306,41	0,95
Czech Republic	10	0,10	43	0,07	53	0,08	266,40	0,83
Sweden	77	0,77	272	0,47	349	0,51	219,95	0,68
Bermuda Islands	24	0,24	238	0,41	262	0,39	214,53	0,66
Japan	84	0,84	1.690	2,92	1.774	2,61	208,74	0,65
People's Republic of China	15	0,15	55	0,10	70	0,10	178,08	0,55
Australia	243	2,42	1.115	1,93	1.358	2,00	175,80	0,54
Barbados	4	0,04	14	0,02	18	0,03	156,43	0,48
Saudi Arabia	11	0,11	47	0,08	58	0,09	153,18	0,47
Kuwait	4	0,04	25	0,04	29	0,04	115,71	0,36
Spain	86	0,86	359	0,62	445	0,66	89,21	0,28
Liberia	91	0,91	541	0,94	632	0,93	74,34	0,23
Lichtenstein	10	0,10	33	0,06	43	0,06	69,33	0,21
Gibraltar	2	0,02	12	0,02	14	0,02	60,72	0,19
Remaining Countries	1.807	18,01	6.615	11,44	8.422	12,41	534,21	1,65
Total	10.032	100,00	57.830	100,00	67.862	100,00	32.288,43	100,00

Total EU without Greece	5.818	57,99	33.160	57,34	38.978	57,44	19.777,17	61,25
Non EU Countries	4.214	42,01	24.670	42,66	28.884	42,56	12.511,26	38,75

Notes: The above clarification concerns Investor Shares with all other nationalities excluding Greek.

3.5 Percentage Participation of Investors in Greek Government Bonds / Corporate Bonds – Data of November 2019

Capitalization (Data of: 29/11/2019)	Other Greek Government Bonds				Corporate Bonds			
	Shares balanced		Capitalization		Shares balanced		Capitalization	
	Number	%	Value (mil. €)	%	Number	%	Value (mil. €)	%
I. Domestic Investors	7.531	99,81	525,50	99,90	20.839	99,35	1.252,94	88,06
Households	7.530	99,80	222,54	42,30	20.505	271,77	806,50	56,68
Insurance Corporations	0	0,00	0,00	0,00	19	0,25	89,90	6,32
Pension funds	0	0,00	0,00	0,00	7	0,09	33,44	2,35
Money Market Funds (MMFs)	0	0,00	0,00	0,00	10	0,13	21,08	1,48
Non-MMF Investment Funds	0	0,00	0,00	0,00	40	0,53	81,93	5,76
Deposit-taking corporations	0	0,00	0,00	0,00	11	0,15	153,30	10,77
Other Financial Intermediaries, except insurance corporations & pension funds	1	0,01	302,96	57,59	9	0,12	7,09	0,50
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	16	0,21	9,52	0,67
Non-Financial corporations	0	0,00	0,00	0,00	220	2,92	47,26	3,32
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Social Security Funds	0	0,00	0,00	0,00	2	0,03	2,92	0,20
Institutions and bodies of the European Union	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Other Domestic Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00
II. Foreign Investors	11	0,15	0,52	0,10	127	0,61	169,91	11,94
Households	11	0,15	0,52	0,10	39	0,19	1,51	0,11
Insurance Corporations	0	0,00	0,00	0,00	3	0,01	0,92	0,06
Pension funds	0	0,00	0,00	0,00	3	0,01	0,26	0,02
Money Market Funds (MMFs)	0	0,00	0,00	0,00	2	0,01	0,38	0,03
Non-MMF Investment Funds	0	0,00	0,00	0,00	12	0,06	26,93	1,89
Deposit-taking corporations	0	0,00	0,00	0,00	35	0,17	59,42	4,18
Other Financial Intermediaries, except insurance corporations & pension funds	0	0,00	0,00	0,00	4	0,02	0,55	0,04
Non-Profit Institutions serving Households	0	0,00	0,00	0,00	1	0,00	0,44	0,03
Non-Financial corporations	0	0,00	0,00	0,00	27	0,13	4,12	0,29
Central Government	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Local Government Organizations	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Social Security Funds	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Institutions and bodies of the European Union	0	0,00	0,00	0,00	1	0,00	75,37	5,30
Non-member Countries & International Organisations Non-resident of EU	0	0,00	0,00	0,00	0	0,00	0,00	0,00
Other Foreign Investors	0	0,00	0,00	0,00	0	0,00	0,00	0,00
III. Other Not Identified	3	0,04	0,03	0,01	10	0,13	0,00	0,00
TOTALS	7.545	100,00	526,05	100,00	20.976	100,08	1.422,84	100,00

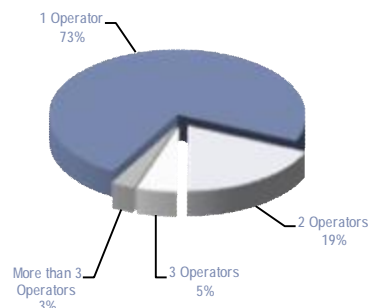
Notes:

1. Bonds refer to listed and dematerialized Bonds
2. Data concerning Greek Government Bonds refer only to those registered in Investor Shares in the D.S.S. of Hellenic Exchanges Holding s.a.

4 Other Investors' Allocations

4.1 Investors' Allocation Based on the number of their Operators

(Data of: 29/11/2019)		Investor Shares	
		Number	%
1 Operator		919.088	73,27
2 Operators		232.662	18,55
3 Operators		65.358	5,21
More than 3 Operators		37.218	2,97
Total		1.254.326	100,00

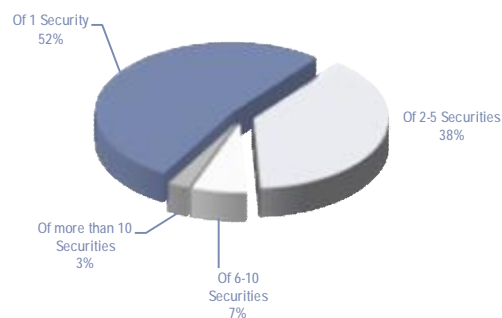


Notes:

1. D.S.S. Operators are the Brokerage Firms and Banks – Custodians.
2. Investor Shares that have been excluded from the total, are those with no 'Active Usage Authorization' while the possible (positive) balances are held in the Special Account, either due to investor's selection or pledging or due to the fact that these securities have not been dematerialized (Investor Shares non appeared). Their total number of these shares is 210.067.

4.2 Investors' Allocation based on the number of securities composing their portfolios

(Data of: 29/11/2019)		Investor Shares	
		Number	%
Of 1 Security		292.992	52,38
Of 2-5 Securities		215.217	38,48
Of 6-10 Securities		36.979	6,61
Of more than 10 Securities		14.129	2,53
Total		559.317	100,00



4.3 Investors' Allocation based on Portfolio Value

(Data of: 29/11/2019)		Investor Shares	
Portfolios		Number	%
Value up to	3.000,0 €	440.133	78,69
-/-	9.000,0 €	57.452	10,27
-/-	15.000,0 €	18.446	3,30
-/-	30.000,0 €	17.224	3,08
-/-	50.000,0 €	8.393	1,50
-/-	70.000,0 €	4.409	0,79
-/-	100.000,0 €	3.313	0,59
-/-	200.000,0 €	4.090	0,73
-/-	300.000,0 €	1.475	0,26
-/-	500.000,0 €	1.179	0,21
-/-	1.000.000,0 €	1.051	0,19
-/-	3.000.000,0 €	1.001	0,18
Value more than	3.000.000,0 €	1.151	0,21
Total Active Investors' Shares:		559.317	100,00

5 Settlement of Transactions *

* Transactions settled in the D.S.S. of ATHEX calculated by single count (BUYS only).

	Number Of Settled Transactions												
	Equities		Pref. Rights		Corporate Bonds		ETFs		Government Dept		Alternative Market (Stocks)		Total
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
January	404.527	99,72	217	0,05	607	0,15	13	0,00	20	0,00	297	0,00	405.681
February	444.155	99,70	0	0,00	682	0,15	33	0,01	1	0,00	602	0,00	445.473
March	439.473	99,52	5	0,00	1.731	0,39	25	0,01	20	0,00	333	0,00	441.587
April	486.878	99,72	0	0,00	929	0,19	42	0,01	0	0,00	406	0,00	488.255
May	680.267	99,66	613	0,09	968	0,14	58	0,01	20	0,00	682	0,00	682.608
June	689.920	99,78	0	0,00	981	0,14	64	0,01	0	0,00	497	0,00	691.462
July	739.034	99,47	1.112	0,15	1.366	0,18	125	0,02	20	0,00	1.344	0,00	743.001
August	626.566	99,65	811	0,13	767	0,12	75	0,01	0	0,00	517	0,00	628.736
September	576.546	99,67	0	0,00	1.400	0,24	59	0,01	0	0,00	433	0,00	578.438
October	561.260	99,34	0	0,00	2.659	0,47	47	0,01	20	0,00	1.009	0,00	564.995
November	588.655	99,45	140	0,02	2.396	0,40	48	0,01	20	0,00	653	0,00	591.912
December													
Total	6.237.281	99,60	2.898	0,05	14.486	0,23	589	0,01	121	0,00	6.773	0,11	6.262.148
Daily Avg	27.356		13		64		3		1		30		27.466

	Number Of Securities Transferred Due To Settlement Of Stock Exchange Transactions												
	Equities		Pref. Rights		Corporate Bonds		ETFs		Government Dept		Alternative Market (Stocks)		Total
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
January	477.217.326	99,56	622.524	0,13	776.425	0,16	1.224	0,00	632.025	0,00	75.793	0,00	479.325.317
February	577.549.739	99,75	0	0,00	1.027.015	0,18	2.515	0,00	101.139	0,00	339.808	0,00	579.020.216
March	600.250.394	98,91	3.827	0,00	2.358.482	0,39	2.996	0,00	4.204.735	0,01	61.170	0,00	606.881.604
April	550.646.471	99,63	0	0,00	1.885.693	0,34	9.955	0,00	0	0,00	127.576	0,00	552.669.695
May	1.326.660.866	99,52	2.671.286	0,20	1.584.053	0,12	25.085	0,00	1.899.350	0,00	275.354	0,00	1.333.115.994
June	760.423.549	99,85	0	0,00	863.518	0,11	85.743	0,01	0	0,00	166.600	0,00	761.539.410
July	774.370.635	99,44	1.570.621	0,20	1.021.249	0,13	150.901	0,02	1.176.230	0,00	422.633	0,00	778.712.269
August	648.019.073	99,65	1.402.713	0,22	772.975	0,12	19.769	0,00	0	0,00	110.578	0,00	650.325.108
September	572.663.597	99,70	0	0,00	1.539.424	0,27	38.905	0,01	0	0,00	127.633	0,00	574.369.559
October	633.646.263	99,72	0	0,00	1.346.816	0,21	52.148	0,01	102.295	0,00	254.884	0,00	635.402.406
November	542.287.782	99,49	199.441	0,04	966.704	0,18	74.997	0,01	1.415.965	0,00	138.309	0,00	545.083.198
December													
Total	7.463.735.695	99,56	6.470.412	0,09	14.142.354	0,19	464.238	0,01	9.531.739	0,13	2.100.338	0,03	7.496.444.776
Daily Avg	32.735.683		28.379		62.028		2.036		41.806		9.212		32.879.144

	Cash Value In € Of Settled Transactions												
	Equities		Pref. Rights		Corporate Bonds		ETFs		Government Dept		Alternative Market (Stocks)		Total
	(value in €)	%	(value in €)	%	(value in €)	%	(value in €)	%	(value in €)	%	(value in €)	%	(value in €)
January	824.012.570,85	98,93	8.276,95	0,00	8.210.530,50	0,99	20.341,41	0,00	583.207,46	0,00	75.305,47	0,00	832.910.232,64
February	877.257.051,30	98,92	0,00	0,00	9.035.245,23	1,02	44.181,27	0,00	103.128,51	0,00	352.146,47	0,00	886.791.752,78
March	1.047.507.757,78	96,62	33,53	0,00	32.494.102,10	3,00	55.972,31	0,01	4.019.310,57	0,00	54.666,19	0,00	1.084.131.842,48
April	1.098.477.553,32	98,46	0,00	0,00	16.846.953,42	1,51	195.088,16	0,02	0,00	0,00	157.924,37	0,00	1.115.677.519,27
May	2.422.448.370,02	99,18	545.138,46	0,02	16.751.855,09	0,69	499.380,51	0,02	1.933.838,87	0,00	291.542,50	0,00	2.442.470.125,45
June	1.623.189.033,66	98,97	0,00	0,00	14.463.515,14	0,88	1.871.967,78	0,11	0,00	0,00	508.668,77	0,00	1.640.033.185,35
July	1.700.260.203,29	98,20	105.735,17	0,01	25.416.779,80	1,47	3.399.748,36	0,20	1.321.878,50	0,00	906.690,98	0,00	1.731.411.036,10
August	1.369.376.058,69	99,01	134.407,12	0,01	12.928.771,50	0,93	421.151,74	0,03	0,00	0,00	253.983,05	0,00	1.383.114.372,10
September	1.284.213.007,89	97,65	0,00	0,00	29.710.439,57	2,26	849.257,80	0,06	0,00	0,00	327.129,18	0,00	1.315.099.834,44
October	1.352.341.257,47	97,58	0,00	0,00	31.615.899,07	2,28	1.131.325,65	0,08	123.303,03	0,00	631.664,69	0,00	1.385.843.449,91
November	1.464.287.242,60	98,03	5.915,19	0,00	25.018.426,18	1,67	1.717.095,46	0,11	1.752.026,33	0,00	861.547,05	0,00	1.493.642.252,81
December													
Total	15.063.370.106,87	98,38	799.506,42	0,01	222.492.517,60	1,45	10.205.510,45	0,07	9.836.693,27	0,06	4.421.268,72	0,03	15.311.125.603,33
Daily Avg	66.067.412,75		3.506,61		975.844,38		44.761,01		43.143,39		19.391,53		67.154.059,66

ANNEX 1 Notes – Clarifications

Investors' Codification

Domestic Investors		
Code	Description	Constituents
S_14	Households	Natural Persons
		Individual Enterprises
		Joint Investors Shares (JISs) or Co-owners Investors Shares
		Other Cases S_14
S_128	Insurance Corporations	Non-life insurance corporations
		Life and non-life insurance to individual units or groups of units
		Pension & Subsidiary Funds
		Reinsurance to other insurance corporations
		Insurance Brokerage
		Other cases S_128
S_129	Pension funds	Pension funds
S_123	Money market funds (MMFs)	Mutual Funds
		(UCITS) Investment funds including investment trusts, unit trusts and other collective investment schemes whose shares or units are close substitutes for deposits
		Public investment funds
		Other cases S_123
S_124	Non-MMF investment funds	Open-ended investment funds whose investment fund shares or units are, at the request of the holders, repurchased or redeemed directly or indirectly out of the undertaking's assets
		Closed-ended investment funds with a fixed share capital, where investors entering or leaving the fund must buy or sell existing shares
		Real estate investment funds
		Investment funds investing in other funds ('funds of funds')
		Hedge funds covering a range of collective investment schemes, involving high minimum investments, light regulation, and a range of investment strategies.
		Other cases S_124
S_121 & S_122	Deposit-taking corporations	Central Bank
		Commercial banks, 'universal' banks, 'all-purpose' banks
		Savings banks (including trustee savings banks and savings banks and loan associations) & Cooperative Banks
		Foreign Credit Institutions' Branches in Greece
		Specialized banks (e.g. merchant banks, issuing houses, private banks)
		Electronic money institutions principally engaged in financial intermediation.
		Public Credit Institutions (e.g. Deposit & Loans Fund)
S_125	Other financial intermediaries, except insurance corporations & pension funds	Other cases S_122
		Financial vehicle corporations engaged in securitisation transactions (FVC)
		Security and derivative dealers (ATHEX Members)
		Security and derivative dealers (non ATHEX Members)
		Financial corporations engaged in lending
S_15	Non-Profit Institutions serving Households	Other cases S_125
		Trade Unions
		Charity Organizations, Church
		Associations
S_11	Non-Financial corporations	Other Cases S_15
		National private non-financial corporations
		Public Corporations Mainly Active in Goods Production and Non-Financial Services
		Foreign controlled non-financial corporations
S_1311	Central Government	Other Cases S_11
		Entities of General Government (Ministries)
		Central Government Legal Entities & Public Corporations
S_1313	Local Government Organizations	Other cases S_1311
S_1314	Social Security Funds	Local Government Organizations and Related Supervised Bodies
		Social security funds
S_212	Institutions and bodies of the European Union	Other Cases S_1314
		Institutions and bodies of the European Union
*	Other Domestic Investors	Non- Categorized Investors with Registered Office in Greece

Foreign Investors		
Code	Description	Constituents
S_14	Households	Natural Persons
		Individual Enterprises
		Joint Investors Shares (JISs) or Co-owners Investors Shares
		Other Cases S_14
S_128	Insurance Corporations	Non-life insurance corporations
		Life and non-life insurance to individual units or groups of units
		Pension & Subsidiary Funds
		Reinsurance to other insurance corporations
		Insurance Brokerage
S_129	Pension funds	Pension funds
S_123	Money market funds (MMFs)	Mutual Funds
		(UCITS) Investment funds including investment trusts, unit trusts and other collective investment schemes whose shares or units are close substitutes for deposits
		Public investment funds
		Other cases S_123
S_124	Non-MMF investment funds	Open-ended investment funds whose investment fund shares or units are, at the request of the holders, repurchased or redeemed directly or indirectly out of the undertaking's assets
		Closed-ended investment funds with a fixed share capital, where investors entering or leaving the fund must buy or sell existing shares
		Real estate investment funds
		Investment funds investing in other funds (funds of funds)
		Hedge funds covering a range of collective investment schemes, involving high minimum investments, light regulation, and a range of investment strategies
		Other cases S_124
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		Commercial banks, 'universal' banks, 'all-purpose' banks
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		Central Government Legal Entities & Public Corporations
S_1313	Local Government Organizations	Other cases S_1311
S_1314	Social Security Funds	Local Government Organizations and Related Supervised Bodies
		Social security funds
S_212	Institutions and bodies of the European Union	Other Cases S_1314
S_22	Non-member countries & international organisations non-resident of EU	Institutions and bodies of the European Union
*	Other Foreign Investors	Non-member countries & international organisations non-resident of EU
Other Not Identified		
Code	Description	Constituents
*	Other Not Identified	Non- Categorized Investors with Registered Office out of Greece
		Joint Holders with Greek and Foreign Members

* Does not refer to an investors category but to accounts with uncompleted categorization process

Note

The new investors' categorization is based on [Regulation \(EU\) No 1011/2012](#), of 17 October 2012, of the European Central Bank, concerning statistics on holdings of securities (ECB/2012/24) and the ["European system of accounts – ESA2010"](#) of Eurostat. The Investors categorization in the Dematerialized Securities System (D.S.S.) is implemented by its designated members and is based on [Decision No 5/2015](#) («Investors Statistical Categorization in Dematerialized Securities System») of the ATHEXCSD Board of Directors as «DSS Administrator».



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