

SILC_ESQRS_A_GR_2012_0000 - Version

National Reference Metadata in ESS Standard for Quality Reports

1

Structure (ESQRS)

Compiling agency: Statistics GREECE - ELSTAT Time Dimension: 2011-A0 Data Provider: EL1 Data Flow: SILC_ESQRS_A

For any question on data and metadata, please contact: <u>EUROPEAN STATISTICAL DATA SUPPORT</u>

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DataProvider	EL	
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2 Introduction 3 Quality management - assessing 4 Relevance 5 Accuracy and reliability 6 Timeliness and punctuality 7 Accessibility and clarity 8 Comparability 9 Coherence 10 Cost and Burden 11 Confidentiality 12 Statistical processing 13 Comment Annexes	<u>ment</u>	
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2 Introduction

The production of quality reports is part of the implementation of the EU-SILC instrument. In order to assess the quality of data at national level and to make a comparison among countries, the National Statistics Institutes give detailed information mainly on: the entire statistical process, sampling and non-sampling errors, and potential deviations from standard definition and concepts.

This document follows the ESS standard for quality reports structure (ESQRS), which is the main report structure for reference metadata related to data quality in the European Statistical System. It is a metadata template, based on 13 main concepts, which can be used across several statistical domains with the purpose of a better harmonisation of the quality reporting requirements in the ESS.

For that reason the template of this document differs from that one stated in the Commission Reg. 28/2004.

ELSTAT completed the sections of ESQRS that were also covered by the Commission Reg. 28/2004. Therefore sections such as 3, 4, 6 and 7 remained empty.

3 Quality management - assessment	Not requested by Reg.28/2004
4 Relevance	Not requested by Reg.28/2004
4.1 Relevance - User Needs	Not requested by Reg. 28/2004
4.2 Relevance - User Satisfaction	Not requested by Reg.28/2004
4.3 Completeness	Not requested by Reg. 28/2004
4.3.1 Data completeness - rate	Not requested by Reg. 28/2004

5 Accuracy and reliability

The concept of accuracy refers to the precision of estimates computed from a sample rather than from the entire population. Accuracy depends on sample size, sampling design effects and structure of the population under study. In addition to that, sampling errors and non sampling errors need to be taken into account. Sampling error refers to the variability that occurs at random because of the use of a sample rather than a census and non-sampling errors are errors

	I mini	the data	collection	n and pro	oduction	process.										
5.1 Accuracy - overall	In terms of precision requirements, the EU-SILC framework regulation as well the Commission Regulation on sampling and tracing rules refers respectively, to the effective sample size to be achieved and to representativeness of the sample. The effective sample size combines sample size and sampling design effect which depends on sampling design, population structure and non-response rate.															
5.2 Sampling error	sample size and sampling design effect which depends on sampling design, population structure and non-response rate.															
5.2.1									d to a sin	ple ranc	lom san	npling, w	e used E	9B030 for o	eluster	
5.2.1 Sampling error - indicators		on and r				sk of pov (60%)			Severe ial Depr			very lov rk inten	V	B030 for 6	eluster	
Sampling error -		on and r	no strata;			sk of pov			Severe			Very lov	V	B030 for 6	cluster	
Sampling error -		Ind.	no strata; AROPE Stand.	Half CI	At ri Ind.	sk of pov (60%) Stand.	zerty Half CI	Mater Ind.	Severe ial Depr Stand.	ivation Half CI	wo Ind.	Very lov rk inten Stand.	v sity Half CI	B030 for o	cluster	
Sampling error -	specificati	Ind. value	AROPE Stand. errors	Half CI (95%)	At ri Ind. value	sk of pov (60%) Stand. errors	Half CI (95%)	Mater Ind. value	Severe ial Depr Stand. errors	ivation Half (95%)	wo Ind. value	Very low rk intens Stand. errors	sity Half CI (95%)	B030 for 6	cluster	
Sampling error -	specificati	Ind. value 34.6	AROPE Stand. errors 1.06	Half CI (95%) 2.08	At ri Ind. value 23.1	sk of pov (60%) Stand. errors 1.01	Half CI (95%) 1.97	Mater Ind. value 19.5	Severe ial Depr Stand. errors 1.01	ivation Half CI (95%) 1.98	wo Ind. value 16.1	Very low ork intens Stand. errors 0.90	v sity Half CI (95%) 1.75	B030 for 6	cluster	
Sampling error -	specificati Total Male	Ind. value 34.6 33.9	AROPE Stand. errors 1.06 1.06	Half CI (95%) 2.08 2.08	At ri Ind. value 23.1 22.5	sk of pov (60%) Stand. errors 1.01 0.94	7 erty Half CI (95%) 1.97 1.84	Mater Ind. value 19.5 19.9	Severe ial Depr Stand. errors 1.01 1.13	ivation Half CI (95%) 1.98 2.22	wo Ind. value 16.1 14.2	Very low rk intens Stand. errors 0.90 1.05	v sity Half CI (95%) 1.75 2.06	B030 for d	cluster	
Sampling error -	specificati Total Male Female Age0-	Ind. value 34.6 33.9 35.2	AROPE Stand. errors 1.06 1.34	Half CI (95%) 2.08 2.08 2.63	At ri Ind. value 23.1 22.5 23.6	sk of pov (60%) Stand. errors 1.01 0.94 1.31	Half CI (95%) 1.97 1.84 2.56	Mater Ind. value 19.5 19.9 19.1	Severe ial Depr Stand. errors 1.01 1.13 1.00	ivation Half (95%) 1.98 2.22 1.96	wo Ind. value 16.1 14.2 17.9	Very low rk intens Stand. errors 0.90 1.05 1.02	v sity Half CI (95%) 1.75 2.06 1.99	B030 for 6	cluster	

1.20 2.35 17.2 1.02 2.01 14.3 1.13 2.21 NA NA NA: breakdowns not available due to definition of indicator

5.3 Non- sampling error	 Non-sampling errors are basically of 4 types: Coverage errors: errors due to divergences existing between the target population and the sampling frame. Measurement errors: errors that occur at the time of data collection. There are a number of sources for these errors such as the survey instrument, the information system, the interviewer and the mode of collection Processing errors: errors in post-data-collection processes such as data entry, keying, editing and weighting Non-response errors: errors due to an unsuccessful attempt to obtain the desired information from an eligible unit. Two main types of non-response errors are considered: Unit non-response: refers to absence of information of the whole units (households and/or persons) selected into the sample Item non-response: refers to the situation where a sample unit has been successfully enumerated, but not all required information has been obtained
5.3.1 Coverage error	 Coverage errors include over-coverage, under-coverage and misclassification: Over-coverage: relates either to wrongly classified units that are in fact out of scope, or to units that do not exist in practice Under-coverage: refers to units not included in the sampling frame Misclassification: refers to incorrect classification of units that belong to the target population Sampling frame and coverage errors EU-SILC survey is based on a two-stage stratified sampling of households from a frame of sampling which has been created on the basis of the results of the 2011 population census and covers completely the reference population. The frame of PSUs is updated every ten (10) years through the general population census. Concerning the frame of households, within each selected PSU this is updated before the selection of the sampling households used for data collection. So, any coverage problems that may arise is more possible to relate with the frame of PSUs Coverage problems encountered were: The frame of the 2011 Census of Population was somehow outdated and as a result some housing units were found to be empty or to be used for other purposes other than housing. Some houses were used as secondary residence, so they were out of scope of the survey. Some houses were impossible to be located due to incomplete information regarding their addresses. Housing units built after March 2012, were not included in our sampling frame.
5.3.1.1 Over- coverage - rate	Main problemsSize of errorCross sectional dataOvercoverage Undercoverage Misclassification1,9% (137 addresses)
5.3.2 Measuremen t error	Cross sectional data

Source of measurement errors	Building process of questionnaire	Interview training	Quality control
Measurement errors can occur from the questionnaire(design, content and wording), the interviewers and their training. the respondents. the routing, and the skills testing before starting the fieldwork As the 2012 EU- SILC round was the 9 th in the series, quality has considerably improved due to interviewers' feedback, continuous data analysis and research.	For building up the questionnaires we adopted the initially proposed questionnaires of Eurostat as the basis (documents EU- SILC055 and EU- SILC065). The structure of the questionnaires is similar to these ones. The majority of the questions are almost literally copied and translated. In order to finalize the questionnaires, we took into account any observations made on the questionnaires of the previous years (pilot survey. EU-SILC 2003 – 2011) together with the experience from the ECHP projects. Mainly the parts on self-employment income and taxes have been differently formulated. The questionnaires for the 2012 survey were the same as those of 2004-2012 survey except for some small changes in the wording. The major changes concern on additional questions using in the net/gross/net conversion model (see www.statistics.gr/social statistics/_ statistical data/ income and living conditions/metadata and questionnaires or on CIRCA). We did not include additional questions to cover	 (a) Interviewers All the external collaborators (interviewers) of Attiki Prefecture attended a four days training course before starting the fieldwork. Four days training was both on the basic concepts of the survey and the questionnaire completion and on the use and data entry in the electronic questionnaires. The training in Athens, Thessalonica, Patras (major regional offices in the country), followed by the Regional Offices Heads, which in turn trained both their personnel as well as the external collaborators. Two manuals were distributed and explained during the training: A general guidelines' manual containing information about the objectives of the survey, the organization of the survey, legal and administrative aspects around the survey, fieldwork aspect (how to contact the household, how to introduce oneself who answers which questions. time delays.) and the content and correct completion of the suse of portable PCs for the EU-SILC Computer Assisted Personal Interviews and about the data entry program itself. Unfortunately, after four years it seems though that still some interviewers don't use the exact wording of the questions. Others skip questions. especially subjective ones (e.g. deprivation questions). Also, when the respondents didn't provide the figures the interviewers completed/imputed the figures 	Apart from the interviewers the training sessions were also attended by supervisors. Each one of them was responsible for a group of interviewers. During the fieldwork period the supervisor had meetings with each one of the interviewers in his/her group at least once a week. During these meetings, apart from discussing problems or questions raised during the week, the supervisors also collected (from the interviewers' also collected (from the interviewers' also collected (from the interviewers' also collected (from the interviewers' all completed questionnaires. Their main duty during the data collection period was to examine the interviewers' work. Furthermore the supervisors had to double check some of the answers

	other areas at the national level.	 (b) The respondents The respondents hesitate in providing income figures and in general deny consulting their tax return, in order to provide exact / correct amounts. Income from interests, dividends in unincorporated businesses is in general not provided from the households, resulting thus in a significant underestimation of it despite to increase in EU SILC 2011. There is a sense that still self-employment income has been underestimated. The Hellenic Statistical Authority ELSTAT (former National Statistical Service of Greece) made several plausibility checks. Especially for income data lower and upper bounds of the range in which an amount of income was accepted were applied. These checks were carried out during the survey conduction, as the guidelines of the survey included such bounds for specific income data and afterwards centrally by personnel of ELSTAT. Whenever necessary, households were called back. Changes occurring in persons' activity status longitudinally resulted in a number of inconsistencies. For example, persons having been working in year N-1 but retired in year N, persons being students in year N-1 and employed in year N, income in year N, ifrom persons who died in year N, etc. may result in these inconsistencies representing though reality. In any case the pre-mentioned examples resulted both in under and over reporting of income. 	respondents either by telephone or by personally visiting the household in question, especially in the case of unusual answers or missing data.	
5.3.3 Non response error	 Non-response errors are errors due to an unsucce non-response errors are considered: 1) Unit non-response which refers to the a sample. According the Commission Recording the Commission Record Household non-response rates (NRh) 	bsence of information of the whole units (-	

NRh = (1-(Ra * Rh)) * 100 = 22.403%

where

5.3.3.1 Unit non-response - rate

$$Ra = \frac{\text{Number of addresses successfully contacted}}{\text{Number of valid addresses selected}}$$

$$= \frac{\sum [DB120 = 11]}{\sum [DB120 = all] - \sum [DB120 = 23]} = \frac{7,110}{7,246} = 0.981231024 = 0.981$$

$$Rh = \frac{\text{Number of household interviews completed and accepted for the database}{\text{Number of eligible households at contacted addresses}} = \frac{\sum [DB135 = 1]}{\sum [DB130 = all]} = \frac{5,626}{7,110} = 0.79127989 = 0.791$$

$$\text{NRh=}(1-0.981^{+0.791})^{+100} = 22.403\%$$
So, the household non-response rates (*NRp*)

$$\text{NRh=}(1.68p)^{+100}$$
Where

$$Rp = \frac{\text{Number of personal interview completed}}{\text{Number of eligible individuals}} = \frac{11,698}{11,817} = 0.990$$

$$\text{NRp=}(1-0.990)^{+100} = 1.000\%$$
So, the individual non-response rate is 0.718%

$$= \frac{\text{Overall individual non-response rate is 22.179\%}$$
So, the overall individual non-response rate is 23.179%
Non-response rate by rotational group and total

$$\frac{1}{\text{Number of personal area is 0.718}$$

$$\frac{1}{\text{Number of personal and total}} = \frac{10.091}{1.000} = \frac{10.091$$

		NRh	22,4	03 35,77	9 10,400	14,300	16,700	
		Rp	0,9	90 0,99	02 0,986	0,988	0,993	
		NRp	1,0	00 0,80	00 1,400	1,200	0,700	
		NRp2	23,1	79 36,29	11,654	15,328	17,283	
		Ra			No substitution	ns		
		Rh			No substitution	ns		
		NRh			No substitution	ns		
	Original units	Rp	-		No substitution	ns		
		NRp			No substitution	ns		
		NRp2			No substitution	ns		
	Ra – address o	contact rate	<u> </u>					
				views within house	holds accepted for d	ata base		
5.3.3.2 Item non-response - rate	Rp - proportion o NRp – individual NRp2 – overall i The computation of ite Regulation No 1982/200	non-respons ndividual no m non-respo	se rate on-response ra	te al to fulfill the pre-	cision requirements c	oncerning publicatior		
non-response - rate 5.3.3.2.1 Item non-response rate by	NRp – individual NRp2 – overall i The computation of ite	non-respons ndividual no m non-respo 03. Item non rst row (% o	se rate on-response ra onse is essenti I-response rate of households	al to fulfill the pre- e is provided for th having received ar	cision requirements c le main income varial n amount) refers to re	oncerning publicatior bles both at household cords were full inforr	and personal lev	el. variable
non-response	NRp – individual NRp2 – overall i The computation of ite Regulation No 1982/200 In the table below the fi was available and imput	non-respons ndividual no m non-respo 03. Item non rst row (% o tation was no	se rate on-response ra onse is essenti i-response rate of households ot necessary.	al to fulfill the pre- e is provided for th having received ar	cision requirements c e main income varial n amount) refers to re income are only coll Total disposable hh transfers other than o ben	oncerning publicatior bles both at household cords were full inforr	and personal lev	el. variable mputed hh income l transfers
non-response - rate 5.3.3.2.1 Item non-response rate by	NRp – individual NRp2 – overall i The computation of ite Regulation No 1982/200 In the table below the fi was available and imput	non-respons ndividual no m non-respo 03. Item non rst row (% o tation was no	se rate on-response rate onse is essenti i-response rate of households ot necessary otal hh gross income	al to fulfill the pre- e is provided for th having received an All components of Total disposable hh income	cision requirements c e main income varial n amount) refers to re income are only coll Total disposable hh transfers other than o ben	oncerning publication bles both at household cords were full inform ected on net-level, the income before social old-age and survivors efits	l and personal lev nation of a certain e gross value is co Total disposable before all socia (HY02	el. variable mputed hh income l transfers 3)
5.3.3.2.1 Item ton-response trate by	NRp – individual NRp2 – overall i The computation of ite Regulation No 1982/200 In the table below the fi was available and impur from the net value.	non-response ndividual nor m non-response 03. Item non rst row (% of tation was not tation was not station was not tation was not tation was not tation was not	se rate on-response rate onse is essenti i-response rate of households ot necessary otal hh gross income (HY010)	tte al to fulfill the pre- e is provided for th having received ar All components of Total disposable hh income (HY020)	cision requirements c e main income varial n amount) refers to re income are only coll Total disposable hh transfers other than o ben	oncerning publication bles both at household cords were full inforr ected on net-level, the income before social old-age and survivors efits (022)	l and personal lev nation of a certain e gross value is co Total disposable before all socia (HY02	el. variable mputed hh income l transfers

			ren prop la	ne from tal of erty or and 2040)	Chil al	Family/ dren related lowances HY050)	payme elsev clas	exclusion ents not where sified '060)	Housing allowanc (HY070	g hh es trai) rec	ar inter- cash ssfers eived 7080)	from capital i incorporate	dends, profit nvestments in d businesses 090)
	% of household have received an amo			13.9		8.6		4.6		0.2	6.4		7.5
	% of household missing values (b imputation)			0,0		0,0		0,0		0,0	0,0		0,0
	% of household partial informat (before imputati	ion		0,0		0,0		0,0		0,0	0,0		0,0
		near emp inc	sh or r-cash bloyee come 2010)	Incom from private u of compa car (PY02	ise any	Cash profits o losses from self- employment (PY050)	Unem be	ployment enefits Y090)	Old-age benefits (PY100)	Survivors benefits (PY110)	Sickness benefits (PY120)	benefits	Education- related allowances (PY140
	% of household having received an amount		29.4		0.7	13.	5	3,2	23,3	4,1	0.2	1.9	0.1
	% of household with missing values (before imputation)		0,0		0,0	0,	0	0,0	0,0	0,0	0,0) 0,0	0,0
	% of household with partial information (before imputation)		0,0		0,0	0.	0	0,0	0,0	0,0	0,0	0,0	0,0
5.3.4 Processing error	Data entry and coding Used the PAPI and CAPI– method to interview the persons. electronic questionnaires were designed using Oracle - SQL, to the mode of collection (CAPI). The errors were fewer than other surveys.						SQL, due	The fina		iles prepare	d		
	(1) Data entry constraints (1) Data entry constr	ned se ation a necks try pro-	everal p rules of were m ograms	doc. 65. ade with	Add the da	itionally to E ata entry prog	Eurostat's grams. In	processe with vari consister Before s H- and F further c	d using SA ious other 1 ncy checks. ending the P- files, data hecked usin	S programs ogical and final D-, R- a files were			

- Coverage
- Checks on the number of questionnaires expected to be collected
- Number of expected household questionnaires per area unit.
- Number of expected personal questionnaires per interviewed household.
- Number of split-off households.
- Number of tracing sheets and number of moved members.
- Deletion of duplicates
- Person identification check (household member check / person identification check on household register
- Monitoring of flows, valid values and out of range values
- Intra-year inconsistencies check
- Intra-questionnaire inconsistencies check
- Controlling of the amount of income components and especially of social transfers

Personal Register

• The specific childcare programs were cross-checked with the age of the child. For example for a three year-old child the interviewer could not register an answer to "number of hours spent per week in a program of obligatory educational level".

Household Questionnaire

- On tenure status, if there was an answer in "owned dwelling" or "rented for free" then there couldn't be registered a positive answer in question on "arrears on mortgage or rent payments".
- On "Capacity to afford paying for one week annual holiday away from home, have a meal with meat, chicken. fish every second year, etc." if a positive answer existed in all four items then in question on "ability to make ends meet" a positive answer wasn't accepted in "with great difficulty".

Personal Questionnaire

- The age was cross-checked with the educational level attended.
- The age was cross-checked with the educational level attained.
- Between questions on level currently attended and level of education attained there was also made a cross-check, so that a person cannot attend a level of education being lower than the one having being finished.
- Crosscheck was made between the age at which the person finished a specific educational level and the specific educational level having been attained. The age couldn't be less than the usual age at which the level is attained.
- A person suffering from a chronic illness or

status has "very good health"

- In question on basic activity status all the answers were crosschecked with the answer provided in the personal register.
- A more complicated cross-check was made in year of birth age first job was undertaken and years spend as employee or self-employed.
- A person couldn't answer "have never worked" if there exists a positive answer in question on 'working full or part time' or answer "yes" in question on 'Have you ever worked?'.
- In question on when a person was employee, then in question 50 must answered "Yes" meaning that he/she had income from paid employment.
- The same check applied for the self-employed as well, then he must answered "Yes" meaning that he/she had income from self-employment.
- In question 2 on social security benefits and specifically for the social solidarity allowance for pensioners up and down boundaries were inserted for the registration of the amount.
- In question on the s/n of the member who made tax return with the respondent must exist in the register.

In all the pre-mentioned checks the cursor couldn't continue to the next answer and a special notice appeared on the screen.

• Inter-questionnaire inconsistencies check

Longitudinal checks

- Checks and comparison of demographic data register in the Personal Register with these of previous year.
- Check and comparison of citizenships and countries of birth with previous year.

(2) Codification

The codification of questions relating to occupation (ISCO), economic activity of the local unit (NACE), nationality was done by experienced personnel according to ISCO-88 and ISCO-08, NACE rev. 2 and Doc 65/11.

(3) Other controls and other problems

Several plausibility checks have been made. most of them being the same as the ones SAS program applies. During the data processing of raw material ACCESS-2000. ORACLE (golden 3.2) and win-SPSS 19 have been used.

5.3.4.1 Imputation rate Not requested by Reg. 28/2004

5.3.4.2 Common units - proportion	Not requested by Reg. 28/2004		
5.3.5 Model assumption error	Not requested by Reg. 28/2004		
5.3.6 Data revision	Not requested by Reg. 28/2004		
5.3.6.1 Data revision - policy	Not requested by Reg. 28/2004		
5.3.6.2 Data revision - practice	Not requested by Reg. 28/2004		
5.3.6.3 Data revision - average size	Not requested by Reg. 28/2004		
5.3.7 Seasonal adjustment	Not requested by Reg. 28/2004		
6 Timelines	ss and punctuality	Not requested by Reg. 28/2004	
6.1 Timelines	S	Not requested by Reg. 28/2004	
6.1.1 Time lag	g - first result	Not requested by Reg. 28/2004	
6.1.2 Time lag	g - final result	Not requested by Reg. 28/2004	
6.2 Punctuali	ty	Not requested by Reg. 28/2004	
6.2.1 Punctua	lity - delivery and publication	Not requested by Reg. 28/2004	
7 Accessibi	lity and clarity		
7.1 Dissemina	tion format - News release	Not requested by Reg. 28/2004	
7.2 Dissemina	tion format - Publications	Not requested by Reg. 28/2004	
7.3 Dissemina	tion format - online database	Not requested by Reg. 28/2004	
7.3.1 Data tab	les - consultations	Not requested by Reg. 28/2004	
7.4 Dissemina	tion format - microdata access	Not requested by Reg. 28/2004	
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7.5 Documentation on methodology	Not requested by Reg. 28/2004
7.5.1 Metadata completeness - rate	Not requested by Reg. 28/2004
7.5.2 Metadata - consultations	Not requested by Reg. 28/2004
7.6 Quality management - documentation	Not requested by Reg. 28/2004
7.7 Dissemination format - other	Not requested by Reg. 28/2004

8 Comparability

According to the Regulation (EC) No 1177/2003 of the European Parliament and of the Council concerning EU-SILC: "Comparability of data between Member States shall be a fundamental objective and shall be pursued through the development of methodological studies from the outset of EU-SILC data collection, carried out in close collaboration between the Member States and Eurostat". Although the best way for keeping the comparability of data is to apply the same methods and definitions of variables, small departures of the definitions given by Eurostat are allowed in EU-SILC. In this way, the mentioned Regulation in its article 16th says: "Small departures from common definitions, such as those relating to private household definition and income reference period, shall be allowed, provided they affect comparability only marginally. The impact of comparability shall be reported in the quality reports." The definitions used in SILC in Greece are fully compared with Eurostat definitions

8.1 Comparabi lity - geographic al	Not requested by Reg. 28/2004			
8.1.1 Asymmetry for mirror flow statistics - coefficient	Not requested by Reg. 28/2004			
8.1.2 Reference population	Reference population	Private household definition	Household membership	
	The reference population is all citizens officially living at Greek territory (population de facto). The source of our sample is the Census Population. This Census includes all private households and their current members residing in the territory independently of any socio-economic characteristics they may have. Persons living in collective households and in institutions are excluded from the target population as well as households having members diplomatic missioners.	The definition of household that Eurostat recommends is used. Household is defined as a person living alone or a group of people who live together in the same dwelling and share expenditures including the joint provision of the essentials of living.	All household members of 16 year and older at the time of the interview are selected for a personal interview. Subject to the further and specific conditions shown below. the following persons must if they share household expenses. be regarded as household members: Persons usually resident. related to other members Persons usually resident. not related	

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		 Resident boarders. lodgers.tenants Visitors Line-in domestic servants.au-pairs Persons usually resident. but temporarily absent from the dwelling (for reasons of holiday travel. work. education or similar) Children of the household being educated away from home Persons absent for long periods. but having household ties : persons working away from home Persons temporarily absent but having household ties: persons There conditions for inclusion as household members are as follows: (a) Categories 3.4. and 5: Such persons must currently have no private address elsewhere; or their actual or intended duration of stay must be six months or more. (b) Category 6: Such persons must currently have no private address elsewhere and their actual or intended duration of atsy must be six months or more. (b) Category 7 and 8: Irrespective of the actual or intended duration of absence, such persons must currently have no private address elsewhere, must be the partner or child of a household member and must continue to retain close ties with the household and must consider this address to be his/her main residence. 	
		(d) Category 9:	

						ties to actuall	berson must ha the househo y or prospect usehold for les	old and mu ively absent	ist be t from		
8.1.3 Reference Period			income and ntributions	Income reference periods use	tove	d for s on	Lag between period and cu				
	a fixed two namely the year. Tax	elve-mont e previous refunds re l 1 referred	calendar ceived to income	For SILC 2012; the income reference period is the year 2011	The reference period f taxes or wealth 2011.	th 20 re (A was th	The income re e previous cal (11) and the fer to the f April - June 2 e lag is at min ad at maximum	lendar year current vari ieldwork p 012). Ther nimum 4 m	(year ables eriod refore		
8.1.4 Statistical concepts and lefinitions	Total hl gross incc (HY010	me h	al disposable h income (HY020) F	social trans	posable hh ir sfers other th urvivors' ber (HY022) F	an old-age lefits	re Tota and incom	l disposable e before all s transfers (HY023) F			
	Imputed rent (HY030)	Income from rental of property or land (HY040)	allowances	Social exclusion payments not elsewhere classified (HY060)	Housing allowances (HY070)	Regular inter-hh cash transfers received (HY080)	Interest, dividends, profit from capital investments in incorporated businesses (HY090)	Interest paid on mortgage (HY100)	Income received by people aged under 16 (HY110)	Regular taxes on wealth (HY120)	Regular inter-hh transfers paid (HY130)
	F	F	F	F	F	F	F	F	F	F	F

Cash or near- cash employ ee income (PY010)	Other non- cash employ ee income (PY020)	Incom e from private use of compa ny car (PY02 1)	Employer s social insurance contributi ons (PY030)	Cash profits or losses from self- employm ent (PY050)	Value of goods produced for own consumpti on (PY070)	Unemploym ent benefits (PY090)	Old- age benefit s (PY10 0)	Surviv ors benefit s (PY110)	Sickne ss benefit s (PY12 0)	Disabili ty benefits (PY130)	Educatio n-related allowan ces (PY140)	Gross monthly earnings for employe es (PY200)
F	F	F	F	F	F	F	F	F	F	F	F	NC Gross monthly earnings for employe es were collecte d even if the gender pay gap is calculat ed from other sources than EU- SILC.
procedu collecti	source or re used fo on of inco ariables	r the	The form in variables at c have bee			ne method used variables in th			et			
Data on i variables by Comp Personal and Pape Personal Each and compone	ncome were coll uter Assis Interview r Asiisted Interview every inc	ected re sted (d ing a ing. le come n d d. in	the interviewe espondents he porting incord of tax on inco nd, if applica ontributions) evel. The form et amounts are atabase are no come at sour ontributions	ave the optic me gross or r me at source ble, of socia at componen n in which the recorded i et of tax on	on of net l l n cial Net a cial Net a varia incon cont	litions) concer record gross at the pro- ponent level, b as a set of thr ehold level. T ical difficultie s. including ne data exactly data are obtain tly from res	ncome ning income ersonal out dispo ee variab There ma es for so Greece, y in this f ned from spondents target inc rted net of s amounts bles have	and Liv ome varia in speci and inco sable inco le at the t ay be sev ome Men in collec form. whe registers in san come f tax on cocial s of the tar also been	vere bler otal vere bber ting ther a or aple			

		moo (SM		a Microsimulation	n Model						
8.2 Comparabi lity - over time	The significant differences existing in some indicators of EU-SILC 2012 and EU-SILC 2011 can be explained to financial crisis in Greece and it can be attributed to the some variables having no high frequency and as a result the changes from year to year may be due to the sample process. Comparison of income target variables – EU SILC 2011 and 2012. Change between SILC 2011 and SILC 2012 by main income component										
	Income component		%								
	НY020					-17,2					
	НҮ022				-17,8						
	НУ023				-23,8						
	PY010N					18,7					
	PY050N				16.9						
	Income component		J SILC (mean)	EU SILC 2012 (mean)	Sums 2011 (in million Euros)	Sums 2012 (in million Euros)					
	Total disposable household income (HY020)	21,	590.37	17,977.60	89,700	75,0138					
	Total disposable household income before social transfers except old-age and survivor's benefits (HY022)	20),777.7	17,19.41	86,322	71,745					
	Total disposable household income before social transfers including old-age and survivor's benefit (HY023)	14,	926.07	11,483.12	62,011	47,915					
	Income from rental of a property or land (HY040N)		911.34	821,59	3,786	3,428					
	Family related allowances (HY050N)		165.12	127.80	685,98	533,26					
	Social exclusion not elsewhere classified (HY060N)		125.63	132.12	521,95	551,288					
	Housing allowance (HY070N)		13.16	4,10	54,600	17,108					
	Regular inter-household cash transfer received (HY080N)		400.57	277.42	1,664	1,157					

I	nterests. dividends. etc. (HY090N)	87,9336	93.24	365,32	389,055		
I	ncome received by people aged < 16 (HY110)	0.27	0.15	0.012	0.063		
Т	Faxes on wealth (HY120N)	38.64	328.82	160,552	137,204		
	Regular inter-household cash transfer paid HY130N)	343.31	280.42	1,426	1,170		
	Net income components at personal lev	el	-				
E	Employee cash or near cash income (PY010N)	4,562.14	3,711.66	41,605			
N	Ion cash income (PY021N)	12.82	17.28	0,117	0,160		
	Cash benefits or losses from self-employment PY050N)	2,026.72	1,720.22	18,522	15,948		
P	Pension from individual private plans (PY080N)	1.71	0.75	15,63	0,70		
t	Jnemployment benefits (PY090N)	115.27	124.77	1,051	1,157		
	Old age benefits (PY100N)	2,344.06	2,317.89	21,516	21,489		
S	urvivor' benefits (PY110N)	305.58	299.65	2,794	2,778		
S	lickness benefits (PY120N)	5.02	3.01	0,45	0,280		
E	Disability/Invalidity benefits (PY130N)	106.93	109.56	0,977	0,102		
E	Education-related allowances (PY140N)	4.59	3.41	0,41	0,316		
8.2.1 Length of co	mparable time series		Not requested by Ro	eg. 28/2004			
8.3 Comparability	7 - domain		Not requested by Reg. 28/2004				
9 Coherence							
	The coherence of two or more statistical outputs refers to the degree to which the statistical processes, by which they we used the same concepts and harmonised methods. A comparison with external sources for all income target variables and persons who receive income from each 'income component' will be provided, where the Member States concerned const external data to be sufficiently reliable.						
9.1 Coherence - cross domain							

	methodologies. Discrepancies may whereas EU-SILC targets househol Also, are presented tables of 2012	d income.		urposes; HBS targets household expend	iture				
9.1.1 Coherence - sub annual and annual statistics	At-risk-of-poverty threshold: 201	2 and 2012 SII	LC -HBS						
(HBS: at risk of poverty)	2012 SILC	2012	HBS						
	5,708.00	5,52	4.20						
	At-risk-of-poverty rate: 2012 and %	d 2011 SILC -F	IBS						
	2012 SILC	2012 F	IBS						
	23.1	21.2	2						
9.1.2 Coherence – Household Budget Survey	The next tables present the coheren HH021: "Tenure status". %	nce between 201	2 HBS and 2012 SILC.						
	Tenure status		2012 HBS	2012 SILC	-				
	Owner		80.4	78.1					
	Tenant		19.6	21.9					
	HH081: "Bath or shower in dwelling".%								
	Bath or shower in dwelling		2012 HBS	2012 SILC	-				
	Yes		2.4	0.8					
	No		97.6	99.2					
	HH091: "Indoor flushing toilet for sole use of household".%								
	Indoor flushing toilet for s household	sole use of	2012 HBS	2012 SILC	_				
	Yes		2.4	0.6					
	No		97.6	99.4					
	HH010: "Dwelling type". %								
	Dwelling type		2012 HBS	2012 SILC					

		Detached house				32.4		31.6			
		Semidetached house				10.5		8.2			
		Apartment or flat			56.4			60.2			
		Some other kind of acc	ommodation			0.7		0.0			
				<u>_</u>							
9.1.2 Coherence – Labour Force Survey	Below are presented tables proving that the most quality target variables are in coherence with variables collected from LFS – 2 nd quarter of 2012 making thus the survey robust. Variable PL031: "Self-defined current activity status". %										
	Self-defined current activity status				2012 SILC		2012 LFS				
	At work (Full + Part time)				39.5		40.1				
	Unemployed				13.8		13.5				
	Non economically active				46.7 46.4						
	Variable PL060: "Number of hours usually worked per week in main job".%										
	Number of hours usually			2012 SILC							
	wo	worked per week in main job		39.57	57		42.0				
	Variable PL130: "Number of persons working in the local unit". %										
	Nu	mber of persons working i	n the local uni	t	20	2012 SILC 201		LFS			
	1 p	erson				18.2		19.7			
	2 1	persons				14.9		13.7			
	3 1	persons			5.0			7.7			
	4 1	persons				4.5		4.5			
	5 I	persons			3.9			3.3			
	6 1	persons			2.5			1.9			
	7 1	persons				1.1		1.4			
	8 1	persons				1.4		1.4			
	9 p	ersons				.8		0.5			

10 persons		2.5	1.3	
11-19 persons				
-		12.3	9.2	
20-49 persons		8.7	8.1	
50 persons or more		17.0	14.0	
Don't know but fewer that 11 persons		2.8	5.5	
Don't know but more than 10 persons		4.4	7.8	
PL040: "Status in employment" %				
Status in employment	20	12 SILC	2012 LFS	
Self employed with employees		5.4	7.3	
Self employed without employees		23.8	24.6	
Employee		66.1	63.2	
Family worker		4.6	4.9	
PE040: "Highest ISCED level attained".%				
Highest ISCED level attained	201	2 SILC	2012 LFS	
Never attended any level of education		5.9	5.	
Primary education		21.8	25.	
Lower secondary education		11.9	14.	
Upper secondary education		32.4	28.	
Post secondary non tertiary education		6.1	7.	
First stage of tertiary education		21.6	6.	
Second stage of tertiary education		0.5	13.	
PL051 : 'Occupation'. %		<u>-</u>		
Occupation	2012 SI	LC	2012 LFS	
Armed forces		1.0	1.4	
Legislators, senior officials and managers		3.8	4.3	
Professionals		3.2	18.8	

Technicians and associate professionals	6.4	8.0
Clerks	13.6	10.1
Service workers and shop and market sales workers	18.8	21.2
Skilled agricultural and fishery workers	14.7	12.2
Craft and related trades workers	14.3	10.9
Plant and machine operators and assemblers	6.6	6.3
Elementary occupations	7.6	6.7
PL111: "Economic activity". %		
Economic activity	2012 SILC	2012 LFS
Agriculture, hunting, forestry and fishing	11.3	13.0
Mining and quarring	0.3	0.3
Manufacturing	9.4	9.5
Electricity,gas,steam and airconditioning	0.8	0.7
Water supply: sewerage, waste management and remediation	0.4	0.5
Construction	5.9	5.6
Wholeshale and retail trade:repair of motor vehicles and motorcycles	17.2	17.9
Transportation and storage	4	4.8
Accommodation and food service activities	7.7	7.3
Information and communication	2.6	1.9
Financial and incurance activities	3.6	3.2
Real estate activities	0	0.2
Professional scientific and technical activities	6.5	5.8
Administrative and support service activities	1.6	1.9
Public administration and defence;compulsory social security	10.6	8.5
Education	8.4	8.1
Human health and social work activities	5.5	6.1
Arts, entertainment and recreation activities	1.0	1.1

Other service activities		1.6		2.0
Activities of households as employers		1.5		1.5
Household by size. %				
Households type	2012 SILC	2012	2 LFS	
One person household	7.8		27.5	
Two persons household	21.5		30.8	
Three persons household	24.1		19.0	
Four persons household	43.4		17.1	
Five persons household	2.3		4.1	
More than six persons household	1.0		1.5	
Variable PL015: "Have you ever worked" (for perso Have you ever worked	ons not working but having	worked in the 2012 SILC	e past) .	% 2012 LFS
Yes		67.5		60.8
No		32.5		39.2
Variable PL120: "Number of persons working less	s than 30 hours per week".	%	L	
Working less than 30 hours per week		2012 SILC		2012 LFS
Number of persons working less than 30 hours poweek	er	5.5		
Variable PL140: "Type of contract". %				
Variable PL140: "Type of contract". % Type of contract	2	2012 SILC		2012 LFS
	2	2012 SILC 78.8		2012 LFS 90.1

Comparison of labour participation. %

	Age Total		otal	Male			nale
	Age	2012 LFS	2012 SILC	2012 LFS	2012 SILC	2012 LFS	2012 SILC
	15-19 years	7.9	7.3	8.4	7.0	7.3	7.6
	20-24 years	51.1	52.6	54.7	53.0	47.6	52.2
	25-29 years	85.8	83.3	89.5	89.0	81.6	77.5
	30-34 years	87.8	89.5	95.4	97.0	80.0	81.3
	35-39 years	87.4	88.3	96.9	98.0	77.2	78.5
	40-44 years	86.1	87.2	95.9	96.7	76.2	77.3
	45-49 years	82.4	84.2	93.9	96.2	71.4	72.9
	50-54 years	73.0	71.8	88.9	88.7	57.2	54.3
	55-59 years	56.0	51.6	73.3	69.1	40.0	35.5
	60-64 years	27.6	27.3	37.5	34.7	18.1	20.2
	65 years +	2.8	1.8	4.4	3.1	1.6	0.8
9.2 Coherence - internal	Comparison of the tota	al equivalized dispos		come (deciles). E	EU-SILC 2012 an	d 2011	
Coherence				come (deciles). E EU-SILC 2011		d 2011 J-SILC 2012	Change
Coherence		sposable household i			EU		Change 0.4
Coherence	Total equivalised di	sposable household i		EU-SILC 2011	EL	J-SILC 2012	
Coherence	Total equivalised di	sposable household i		EU-SILC 2011 4,154,528	EU	J-SILC 2012 4,172,628	0.4
Coherence	Total equivalised di 	sposable household i		EU-SILC 2011 4,154,528 12,637.08	EU	J-SILC 2012 4,172,628 10,724.33	0.4
Coherence	Total equivalised di Number of househo Mean Standard deviation	sposable household i		EU-SILC 2011 4,154,528 12,637.08 9,145.63	EL	J-SILC 2012 4,172,628 10,724.33 7,853.34	0.4 -15.1 -14.1
Coherence	Total equivalised di Number of househo Mean Standard deviation 10%	sposable household i		EU-SILC 2011 4,154,528 12,637.08 9,145.63 2,950.64	EL	J-SILC 2012 4,172,628 10,724.33 7,853.34 2,054.06	0.4 -15.1 -14.1 -30.4
Coherence	Total equivalised di Number of househo Mean Standard deviation 10% 20%	sposable household i		EU-SILC 2011 4,154,528 12,637.08 9,145.63 2,950.64 5,579.42	EU	J-SILC 2012 4,172,628 10,724.33 7,853.34 2,054.06 4,813.66	0.4 -15.1 -14.1 -30.4 -13.7

60%	11,793.63	10,116.62	-14.2
70%	13,590.89	11,517.61	-15.3
80%	15,794.93	13,419.38	-15.0
90%	19,128.35	16,243.08	-15.1
100%	31,802.94	26,765.44	-15.8

Comparison of the total equivalized disposable household income(quintiles). EU-SILC 2011 and 2012

Total equivalised disposable household income

	EU-SILC 2011	EU-SILC 2012	Change
Number of households	4,154,528	4,172,628	0.4
Mean	12,637.08	10,724.33	-15.1
Standard deviation	9,145.63	7,853.34	-14.1
20%	4,625.43	3428,67	-25.9
40%	7,841.51	6,782.56	-13,5
60%	10,937.08	9,439.93	-13,7
80%	14,694.96	12,468.46	-15,2
100%	25,448.75	21,504.05	-15,5

Comparison of number of persons who receive income from family allowances with external sources

Family allowances	Number of persons that received the family allowances in survey data	Number of persons received the family allowances in administrative data	Recorded in survey/recorded from administrative data %
Life long pension for mothers with more than 3 children	164,525	167,955	98.0
Allowance for mothers having more than 3 children	22,497	77,719	28.9
Allowance for mothers having third child	51,800	60,807	85.2
Lump sum due to birth of third. four etc. child	1,547	17,652	8.8
Allowance for mothers having 3 children	14,590	178,920	8.2

Total	254,959	503,053	50.7

Unemployment benefit / Social solidarity for pensioners/ ESSPROS

Comparisons have been made for regular unemployment benefit with administrative data (approximately 334,455), while the survey were found 300,553 persons. As far as the social solidarity benefit for pensioners is concerned. according to administrative data 252,453 persons (information of the main insurance scheme IKA) received it in 2012 (EU-SILC 2012), while from the survey the relative number is 180,543 persons, having in mind that IKA gives that the 80% of that allowance. In general, deviations from ESSPROS's data are accepted and are attributed to the fact that ESSPROS's data are from administrative data while the other are from a sample of households.

			1		
10 Cost and	d Burden	Not requested by Reg.28/2004			
11 Confide	entiality	Not requested by Reg. 28/2004			
11.1 Confide	ntiality - policy	Not requested by Reg.28/2004			
11.2 Confide	ntiality - data treatment	Not requested by Reg.28/2004			
12 Statistic	cal processing				
	uch information is mainly used for the computation of the ac	ing units, sampling size, weightings and mode of data collection can be fou ocuracy measures.	ind in		
data	 Sampling frame and coverage errors EU-SILC survey is based on a two-stage stratified sampling of households from a frame of sampling which has been created on the basis of the results of the 2011 population census and covers completely the reference population. The frame of PSUs is updated every ten (10) years through the general population census. Concerning the frame of households, within each selected PSU this is updated before the selection of the sampling households used for data collection. So, any coverage problems that may arise is more possible to relate with the frame of PSUs 				
	to be used for other purposes other than housing.6. Some houses were used as secondary residence, s	o incomplete information regarding their addresses. Included in our sampling frame.	pty or		
12.1.1					

-
Type of sampling design
The two-stage area sampling was applied for the EU-SILC survey.
Stratification and sub stratification criteria
There are two levels of area stratification in the sampling design. The first level is the geographical stratification based on the partition of the total country area into thirteen (13) Regions corresponding to the European NUTS2 level. The two former major city agglomerations of Greater Athens and Greater Thessalonica constitute separate major geographical strata.
The second level of stratification entails grouping Municipal/Local communes within Region by
degree of urbanization, i.e., according to their population size. The scaling of urbanization was finally designed in four groups:
>= 30.000 inhabitants
> 5.000-29.999 inhabitants
➤ 1.000-4.999 inhabitants
> 0-999 inhabitants
The number of the final strata in the thirteen (13) Regions is 50. The former Greater Athens Area was
divided into 31 strata of about equal size (equal number of households) on the basis of the lists of city
blocks of the Municipalities that constitute it and taking into consideration socio-economic criteria.
Similarly, the former Greater Thessaloniki Area was divided into 9 equally sized strata. The two
Major former City Agglomerations account for about 39,1% of total population and for even larger
percentages in certain socio-economic variables. Thus, the total number of final strata of the survey is 90.
The initial sample size is 7.383 households (the sampling fraction is about 1,8‰). This fraction was the same in each geographical region.
As it was mentioned above, the Regions (NUTS2) in Greece are thirteen (13) in number. However, throughout this study the 2 nd Region (Central Macedonia) was considered without former Greater Thessaloniki and the 9 th Region (Attica) without the former Greater Athens area, while either of these two former major agglomerations was treated as a geographical region.
Sample selection schemes
1 st stage of sampling
In this stage, from any final stratum, say stratum h , n_h primary units were drawn. The number n_h
of draws was approximately proportional to the population size X_h of the stratum (number of households according to the last population census of the year 2001).
Each area unit (primary unit) of the stratum has a selection probability proportional to its size. So, if X_{hi} is the number of households (according to the 2001 population census) of the unit in the sample of order i , then the probability of being drawn was:
$\mathbf{D} = X_{\mu i}$

$$P_{hi} = \frac{X_{hi}}{X_h} \quad (1)$$

The total number of the primary sampling units is 1.196 areas.

As in each year the 25% of the sample households is replaced, the new households belong to different primary sampling units.

2nd stage of sampling

In this stage from each primary sampling unit (selected area) the sample of ultimate units (households) is selected. Actually, in the second stage we draw a sample of dwellings. However, in most cases, there is one to one relation between household and dwelling. If the selected dwelling consists of one or more households then all of them are interviewed.

Let M_{hi} be the number of households during the survey period in the i selected area of the stratum h. This number comes from an updated list of households. Out of them a systematic sample of m_{hi} households is selected with equal probabilities. All m_{hi} households have the same chance to be

included in the survey, equal to: $\frac{m_{hi}}{M_{hi}}$.

The sample size m_{hi} was determined by calculating the sampling interval δ_{hi} as following:

$$\frac{1}{n_{h}} \cdot \frac{1}{P_{hi}} \cdot \frac{M_{hi}}{m_{hi}} = \lambda \Longrightarrow (2)$$

$$\frac{1}{n_{h}} \cdot \frac{1}{P_{hi}} \cdot \mathcal{S}_{hi} = \lambda \Longrightarrow$$

$$\mathcal{S}_{hi} = \frac{M_{hi}}{m_{hi}} = \lambda \cdot n_{h} \cdot P_{hi} (3)$$

The relation (2) denotes that the estimator of the final stratum total Y_h is self-weighted. Additionally

the overall sampling fraction $\frac{1}{\lambda}$ in each Region (NUTS2)

is equal to 1,8%

Sample distribution over time

As the survey is annual, the sample of households is not distributed over time. The survey is carried out from May to June of the

year 2012 with reference period of data the previous year (2011).

Month	Date	Number	%
May	1 to 10	228	4.1
	11 to 20	485	8.6
	21 to 31	897	15.9
June	1 to 10	1,415	25.2
	11 to 20	1,371	24.4
	21 to 30	1,220	21.9

							1				
12.1.2 Sampling mit	The sample of private household and the ultimate sampling units				-	areas (one or mo	re unified city blocks)				
2.1.3 ampling ate and ampling ize	Concerning the SILC instrumen - the actual sample size which is - the achieved sample size which - the effective sample size which rate indicator Given that the effective sample mainly on the achieved sample size Sample size and allocation cri According to the Regulation (I persons aged 16 or over. The in	the number of same in is the number of in is defined as the size has been alreatize. teria EC) No 1177/2003	npling observe achieve dy trea 3 Articl	units selected ed sampling un ed sample size ted in the section e 9, the minim	in the sample nits (household divided by the ion dealing with	or individual) wi design effect with 1 sampling errors, ample size for G	n regards to the at-risk-of pove in this section the attention for reece is 4.750 households and	ocuses 1 9.50			
	geographical region.	Tetal	D1	D1	D2	D 4					
	Status of households' sample										
	As it was mentioned above, the geographical region (Central M Greater Athens area, while eithe Population and sample distribut	acedonia) was cor r of these two maj	nsiderec	l without Grea	ater Thessalonik	ti and the 9 th geo	graphical region (Attica) with				
	geographical region (Central M Greater Athens area, while eithe	acedonia) was cor r of these two maj	nsiderec	l without Grea	ater Thessalonik	ti and the 9 th geo	graphical region (Attica) with n. Accepted				
	geographical region (Central M Greater Athens area, while eithe Population and sample distribut	acedonia) was cor r of these two maj	or aggle	l without Grea omerations wa	ater Thessalonik	ti and the 9 th geo	graphical region (Attica) with n. /n Accepted (DB135=1)				
	geographical region (Central M Greater Athens area, while eithe Population and sample distribut NUTS2	acedonia) was cor r of these two maj ion Name	or aggle	l without Grea omerations wa	ater Thessalonik	ki and the 9 th geo eographical regio Draw	graphical region (Attica) with n. /n Accepted (DB135=1) 15 449				
	geographical region (Central M Greater Athens area, while eithe Population and sample distribut NUTS2 GR11	acedonia) was cor r of these two maj ion Name Thraki and Anat	or aggle or aggle oliki M	l without Grea omerations wa	ater Thessalonik	ti and the 9 th geo eographical regio Draw 51	graphical region (Attica) with n. /n Accepted (DB135=1) 15 449 32 1,063				
	geographical region (Central M Greater Athens area, while eithe Population and sample distribut NUTS2 GR11 GR12	acedonia) was cor r of these two maj ion Name Thraki and Anat Kentriki Macedo	or aggle or aggle oliki M	l without Grea omerations wa	ater Thessalonik	ki and the 9 th geo eographical regio Draw 51 1,33	graphical region (Attica) with n. /m Accepted (DB135=1) 15 449 32 1,063 27 210				
	geographical region (Central M Greater Athens area, while either Population and sample distribut NUTS2 GR11 GR12 GR13	acedonia) was con r of these two maj ion Name Thraki and Anat Kentriki Macedon Dytiki Macedon	or aggle or aggle oliki M	l without Grea omerations wa	ater Thessalonik	ci and the 9 th geo eographical regio Draw 51 1,33 22	graphical region (Attica) with n. /m Accepted (DB135=1) 15 449 32 1,063 27 210 28 461				

GR23	Dytiki Ellada	588	538
GR24	Sterea Ellada	381	337
GR25	Peloponnisos	432	395
GR30	Attiki	2,246	1,226
GR41	Voreio Aigaio	162	153
GR42	Notio Aigaio	199	165
GR43	Kriti	413	298
Total	Total	7,383	5,626

The 137 addresses that were out of scope of the survey correspond to vacant accommodation, or buildings used as secondary residences or for business purposes, or demolished housing units. Furthermore, 136 addresses were not successfully contacted. Out of the 7,110 addresses successfully contacted, 5,626 households completed the Household questionnaire and were all accepted for the database. This was above the minimum effective sample size (4.750 households) requested by the Regulation (EC) No 1177/2003 Article 9. Thus, the achieved sample size was 5,626 households, 13.689 persons in total and 11,698 persons aged 16 or over. In order to achieve this, the number of households of the new sub-sample selected was 2,554.

The 2012 sample results are shown in the table below:

Distribution of households by 'record of contact at address' (DB120)

	Number of households	%
Total (DB120 =11 to 23)	7246	100,0
Address contacted (DB120 =11)	7110	98,1
Address non-contacted (DB120 =21 to 23)	136	1,9
Address cannot be located (DB120 =21)	40	0,6
Address unable to access (DB120 =22)	20	0,3
Address does not exist (DB120 =23)	76	1,0

Distribution of households by 'household questionnaire result' (DB130) and by 'household interview acceptance' (DB135)

	Number of households	%
Total	7110	100,0
Household questionnaire completed (DB130 =11)	5626	79,1
Interview not completed (DB130 =21 to 24)	1484	20,9

Refusal to co-operate (DB130 =21)	678	9,5
Entire household temporarily away (DB130 =22)	665	9,4
Household unable to respond (DB130 =23)	95	1,3
Other reasons(DB130 =24)	46	0,6
Total interview not completed (DB130 =21 to 24)		
Household questionnaire completed (DB135=1+2)	5626	100,0
Interview accepted for database (DB135=1)	5626	100,0
Interview rejected (DB135=2)	0	0,0

Achieved sample size

The table below presents the achieved samples of persons aged 16 years and over, as well as of households, within each rotational group.

Sample Size and Accepted Interviews					
	Total	R1	R2	R3	R4
Persons 16 years and over	11698	3310	2935	2650	2803
Number of accepted personal questionnaires	11698	3310	2935	2650	2803
Accepted household interviews	5626	1618	1405	1256	1347

Distribution of household members by data status and rotation group

	Total	RB250 =11	RB250	RB250	RB250	RB250		DD250 22
Tatal	Total	44000	=21	=22	=23	=31	RB250 =32	RB250 =33
Total	11817	11698	1	0	2	98	18	0
%	100,0	99,0	0,0	0,0	0,0	0,8	0,2	0,0
	Rotation 1							
Total	3336	3310	1	0	1	23	1	0
%	100,0	99,2	0,0	0,0	0,0	0,7	0,0	0,0
	Rotation 2							
Total	2978	2935	0	0	1	36	6	0
%	100,0	98,6	0,0	0,0	0,0	1,2	0,2	0,0
	Rotation 3							
Total	2681	2650	0	0	0	23	8	0
%	100,0	98,8	0,0	0,0	0,0	0,9	0,3	0,0
	Rotation 4							
Total	2822	2803	0	0	0	16	3	0
%	100,0	99,3	0,0	0,0	0,0	0,6	0,1	0,0

- 11 information completed only from interview
- 21 individual unable to respond
- 22 failed return self-completed questionnaire
- 23 refusal to co-operate
- 31 person temporarily away and no proxy possible
- 32 no contact for other reasons
- 33 information not completed: reason unknown

Substitutions

No substitution procedures were applied. **Method of selection of substitutes** Not applicable.

Renewal of sample: rotational groups

The survey is a simple rotational design survey. The sample for any year consists of 4 replications, which have been in the survey for 1-4 years. With the exception of the first three years of survey, any particular replication remains in the survey for 4 years. Each year, one of the 4 replications from the previous year is dropped and a new one is added. Between year T and T+1 the sample overlap is 75%; the overlap between year T and year T+2 is 50%; and it is reduced to 25% from year T to year T+3, and to zero for longer intervals.

The size of each Rotational Group for the 2012 survey is shown in Table below:

Size of the Rotational Groups

	Total	R1	R2	R3	R4
Addresses in initial sample	7383	2594	1613	1510	1666
Household Questionnaire completed	5626	1618	1405	1256	1347

	Interviews Accepted for database56261618140512561347										
12.2 Frequency of data collection	ELSTAT conects EO-SILC data annuary.										
12.3 Data collection	Mode of data collection ostly, paper assisted personal interviewing (PAPI) technique has been used. The other techniques used are the CAPI (more specifically factor-face interviews with laptops) and CATI techniques, while the use of self-administered by the respondent technique is very limited.										
	The following tables present the distribution of individuals aged 16 or over by data status and type of interview. Distribution of individuals aged 16 or over by type of interview and rotational group										
		Total	RB260=1 Face to face interview PAPI	RB260=2 Face to face interview CAPI	RB260=3 CATI, telephone interview	RB260=4 Self administered by responden	d RB260=5 Proxy interview				
	Total	11,817	11,698	1	0	2	. 98				
	%	100.0	99.0	0.0	0.0	0.0	0.8				
		Rotation 1									
	Total	3,336	3,310	1	0	1	23				
	%	100.0	99.2	0.0	0.0	0.0	0.7				
		Rotation 2									
	Total	2,978	2,935	0	0	1	. 36				
	%	100.0	98.6	0.0	0.0	0.0) 1.2				
		Rotation 3									
	Total	2,681	2,650	0	0	C) 23				
	%	100.0	98.8	0.0	0.0	0.0) 0.9				
		Rotation 4									

	Total	2,822	2,803		0	0	0	16		
	%	100.0	99.3		0.0	0.0	0.0	0.6		
	The mean interview duration The mean interview duration per household was estimated at 59.33 min. The average has been calculated according to the duration registered in the questionnaires as the sum of the duration of the household interviews plus the sum of the duration of all personal interview duration by the number of household questionnaires completed and accepted for database. The time needed for the data entry questionnaires in the computer (PAPI interview) has not been taken into account. Note that we did not include additional questions to other areas at the national level. Interview duration HB100- Number of minutes to complete the household questionnaire									
	Mean							15.	99	
	Maximum Minimum				60					
	Minimum PB120-Minutes to complete the personal questionnaire Mean Maximum Minimum					5				
						18.84				
						60				
						10				
	Mean of inteview durarion							59.	33	
12.4 Data validation	Not requested by Reg. 28/2004									
12.5 Data compilation	Please find below a description of the weighting and imputation procedures .									
12.5.1 Weighting procedure		Design factor	Non-res adjustr			Adjustment to exte	rnal data	Final cross sectional weights		
	household sectional w the EC-Eur 157/05 was	computation of the design weights and the eights of the survey in g ostat document EU-SILC used.	e cross design eneral, stratum, C Doc. non-res adjustm	calib the weig ponse (Pro- ent of for t	pration ghts in jection the ye	nt to external of of the househ of conjunction with as for population ar ear 2012). This m n of auviliary varie	old and personal n external sources nd household totals nethod enables the	The finalcross-sectionalweights		

	introduced in 2008, weight (target variab as the inverse of selection. $\frac{1}{n_h} \cdot \frac{1}{P_{hi}} \cdot \frac{1}{n_h}$ (4) $M_{hi} = \text{the number}$ updated sampling fra area (primary unit). $m_{hi} = \text{the number ofhouseholds in the hin_h = \text{the sample sitter h is the h stratum.P_{hi} = \text{the selection}primary unit.For households in parthousehold design weightby applying the geneEU-SILC Doc.157/05• Computationdesign weight• Correctionto attrition• Computationhousehold design weight• Correctionto attrition$	area (primary unit). ize of primary units in n probability of <i>hi</i> nels 2, 3 and 4 the eights are defined eral procedure of 5: on of panel person ghts for non-response due on of sub-sample	carried out by the inverse of the response rate, so as to "make up" for non- responding cases in that stratum. Target variable DB080 was adjusted for non-response	and individual level, to coincide with the corresponding population distribution of external data. The auxiliary variables used at household level are the household size $(1, 2, 3, 4+$ household members), the tenure status and the Region (NUTS 2). Also, at personal level the auxiliary variables used are age groups (five years age groups) and gender. The weights obtained after this procedure of calibration are the household cross-sectional weights (variable: DB090). As all the household members reply to the household questionnaire, DB090 is also the weight of each member of the household (variable: RB050). The last step involves the calculation of the personal cross sectional weights for household members aged of 16 and over (variable: PB040). The calibration procedure was applied again using as initial weights variable RB050 and as auxiliary variable the distribution of population aged 16 and over by age (five years age groups) and sex.	as described above, i.e. using DB080 after non- response adjustment as the initial weight for new panel and base weights adjusted for non- response
10.5.0					
12.5.2 Estimation and imputation	Imputation procedure used Imputed rent			Company car	
	In the very few cases where	We calculate the im the self assessment stratidication method	method and the d. With the first	The benefit for individuals of using a	

imputation require Mainly, net incom- was converted to gross by applying the existing tax system and social insurance contributions rules Personal refusals were imputed usir existing data from previous waves as the starting point.	 answer according to the rents prevailing in the specific area. Also. for calculation of the imputed rent we developed the stratification method using the following variables: Dwelling type (Detached house, Semi-detached or groups of similarly dwellings, Apartment or flat in a building with less than 10 dwellings. Apartment or flat in a building with 10 dwellings or more. Some other kind of accommodation, please specify) Number of rooms Tenure status (Owned. Rented. sub-rented with rent at prevailing or market price (Included are cases where rent is recovered from housing benefit). Rented at a reduced price (lower price than the market price). Provided rent-free (from the employer, relatives. etc.)) For owned dwelling Year of purchase/inhabit main dwelling (if the household crenting a similar dwelling) Approximate range for imputed rent (if the household does not know) Mortgage loan (paid interest) For dwelling rented with rent lower than the market price 	According to doc. EU-SILC 130/04 the main idea of the method was to impute to the employee the amount the recipient would have to pay over the reference period to enjoy the same benefit from the use of own vehicle. 1 Depreciation = (Purchase prices - selling prices at X)/X. 2 Where X is the average age of a company car. To calculate the "purchase price" and the "selling price". the make. the model. the registration year and other characteristics of the car have been used. A list of prices or manufacturer's recommended retail prices have been used for a wide range of new cars. If a specific type of car was not included in the list, the RRP has been available from the manufacturer's website. If a RRP was not available in the country, then it was estimated based on the price of a similar car or the price relative to other cars in the country with the similar pricing structure. The list price included VAT and vehicle registration tax. For calculating the "average age of a company car" an average of 5 has been considered.	
	 Approximate range for imputed rent (if the household does not know) Mortgage loan (paid interest) For dwelling rented with rent 		

12.6	reduced price) Approximate range for imputed rent (if the household does not know) • For provided rent-free dwelling Year of movement in the dwelling Monthly Imputed rent for the dwelling (if the household renting a similar dwelling) Approximate range for imputed rent (if the household does not know) • Other variables Dwelling amenities, balcony, veranda, garage/ parking. elevator. swimming pool garden and also dwelling area. It is noted that in the files we completed the variable with the results of statitification method.							
Adjustme		National questionnaire is available in Circa BC at:						
13 Com	nent	https://circabc.europa.eu/ . Please select EU SILC section and then select the folder '06 National Questionnaire' in the library list. Additionally under the folder '02 Guidelines' and then under the folder '2.4 2012 Operation Guidelines' you can find information of the 2012 Ad-hoc Module variables.						
	Questionnaires							
	p://www.statistics.gr/portal/page/portal/ESYE/BUCKET/A0802/Other/A0802_SFA10_QS_AN_00_2012_00_2012_01_F_EN.pdf							
	http://www.statistics.gr/portal/page/portal/ESYE/BUCKET	T/A0802/Other/A0802 SFA10 QS AN 00 2012 00 2012 02 F EN.pdf						
Annexes	tp://www.statistics.gr/portal/page/portal/ESYE/BUCKET/A0802/Other/A0802_SFA10_QS_AN_00_2012_00_2012_03_F_EN.pdf							
	ttp://www.statistics.gr/portal/page/portal/ESYE/BUCKET/A0802/Other/A0802_SFA10_QS_AN_00_2012_00_2012_04_F_EN.pdf							
		T/A0802/Other/A0802 SFA10 OS AN 00 2012 00 2012 05B F EN.pdf						
	Tables							
	ttp://www.statistics.gr/portal/page/portal/ESYE/PAGE-							

themes?p_param=A0802&r_param=SFA10&y_param=2012_00&mytabs=0

Press Release

http://www.statistics.gr/portal/page/portal/ESYE/BUCKET/A0802/PressReleases/A0802_SFA10_DT_AN_00_2012_01_F_EN.pdf