# STATISTICS ON INCOME AND LIVING CONDITIONS (EU-SILC 2011) 

## INTERMEDIATE QUALITY REPORT

## INTRODUCTION

## 1. COMMON CROSS-SECTIONAL EUROPEAN UNION INDICATORS

### 1.1. Common cross-sectional EU indicators based on the cross-sectional component of EU-SILC

1.1.1 Risk-of-poverty threshold
1.1.2 At-risk-of-poverty rate after social transfers
1.1.3 Dispersion around at-risk-of-poverty-threshold
1.1.4 Relative median risk-of-poverty gap
1.1.5 At-risk-of-poverty rate before social transfers
1.1.6 S80/S20 quartile share ratio
1.1.7 Gini coefficient
1.2. Other indicators

Mean equivalised income

## 2. ACCURACY

2.1 Sample design
2.2 Sampling errors
2.3 Non-sampling errors
2.4 Mode of data collection
2.5 Interview duration
2.6 Collection of variable company car

## 3. COMPARABILITY

3.1 Basic concepts and definitions
3.2 Components of income

## 4. COHERENCE

4.1 Comparison of income target variables with external sources

## INTRODUCTION

The Romanian survey on income and living conditions, named Quality of life survey, represents the implementation of EU-SILC survey in Romanian statistical system. The main goal of this survey is to produce data regarding the income and living conditions in a standardized manner, in order to produce comparable estimates at EU level. In this way, the survey is the reference source for comparative statistics on income distribution and social exclusion in European Union.

In 2011, the survey was carried-out by the National Institute of Statistics with the funds supplied by Eurostat on the grant nr. 10602.2010.002-2010.167.

The survey implemented the methodology described in the EU-SILC Regulation (EC) no $1177 / 2003$ of the European Parliament and of the Council concerning Community Statistics on Income and Living Conditions.
We designed this survey as a new harmonized survey in order to meet all EU-SILC requirements. An integrated design with a rotational sample was applied, in which the sample is divided in sub-samples, each of them similar in size and design and representative for the whole population. From one year to another three sub-samples are retained, one is dropped and one new sub-sample is included in the survey. In this way, the cross-sectional and longitudinal statistics are produced from the same set of sample observations.

This document provides common cross-sectional EU indicators based on the crosssectional component of EU-SILC, a description of the accuracy, precision, the comparability and the coherence of the Romanian SILC 2011 survey.

## 1. COMMON CROSS-SECTIONAL EUROPEAN UNION INDICATORS

1.1 Common cross-sectional EU indicators based on the cross-sectional component of EU-SILC
1.1.1 At-risk-of-poverty threshold (illustrative values)
(a) one person household: 5349 lei
(b) household with 2 adults and 2 dependent children: 11232 lei

### 1.1.2 At-risk-of-poverty rate by age and gender

| AGE GROUP | TOTAL | MALE | FEMALE |
| :--- | :---: | :---: | :---: |
| Total | 22.2 | 21.9 | 22.5 |
| $0-17$ | 32.9 | - | - |
| $18-64$ | 21.0 | 19.8 | 18.6 |
| $65+$ | 14.1 | 8.7 | 17.7 |

At risk-of-poverty rate by most frequent activity and gender

|  | AGE <br> GROUP | TOTAL | MALE | FEMALE |
| :--- | :---: | :---: | :---: | :---: |
| At work | $18+$ | 18.9 | 21.0 | 16.0 |
| Not at work: total | $18+$ | 20.8 | 16.9 | 23.2 |
| Not at work: unemployed | $18+$ | 47.7 | 56.7 | 28.6 |
| Not at work: retired | $18+$ | 11.1 | 8.5 | 12.9 |
| Not at work: other inactive | $18+$ | 32.9 | 22.3 | 36.4 |
| Employees | $18+$ | 5.6 | 7.2 | 3.6 |
| Employed persons except employees | $18+$ | 54.7 | 56.1 | 52.6 |

## At risk-of-poverty by household type (\%)

HOUSEHOLD TYPE
Total ..... 22.2
Households without dependent children ..... 14.1
One adult younger than 65 years ..... 21.1
One adult older than 65 years ..... 25.4
Single female ..... 26.7
Single male ..... 17.2
Two adults younger than 65 years ..... 13.3
Two adults, at least one aged 65 years and over ..... 9.6
Three or more adults ..... 12.4
Households with dependent children ..... 27.4
Single parent with dependent children ..... 40.0
Two adults with one dependent children ..... 18.2
Two adults with two dependent children ..... 26.7
Two adults with three or more dependent children ..... 54.7
Two adults ..... 11.6
Two or more adults with dependent children ..... 27.1
Two or more adults without dependent children ..... 12.0
Three or more adults with dependent children ..... 27.1
At-risk-of-poverty by tenure status (\%)
TOTAL OWNER OR RENT-FREE TENANT
1.1.3 Relative median at-risk-of-poverty gap by age and gender (\%)

|  | TOTAL | MALE | FEMALE |
| :--- | :---: | :---: | :---: |
| Total | 31.8 | 33.7 | 29.3 |
| $0-17$ | 34.7 | - | - |
| $18-64$ | 33.3 | 33.7 | 31.9 |
| $65+$ | 19.6 | 19.0 | 19.6 |
| $76+$ | 18.6 | 14.7 | 19.5 |

1.1.5 At-risk-of-poverty by age and gender before all transfers

|  | TOTAL | MALE | FEMALE |
| :--- | :---: | :---: | :---: |
| Total | 49.8 | 48.5 | 51.0 |
| $0-17$ | 50.2 | - | - |
| $18-64$ | 41.5 | 41.1 | 42.0 |
| $65+$ | 86.2 | 89.4 | 84.0 |

1.1.6 $\underline{\mathrm{S} 80 / \mathrm{S} 20}$ quintile share ratio: 6.2
1.1.7 Gini coefficient: 33.2

### 1.2 Other indicators

Mean equivalised income: 16416 lei

## 2. ACCURACY

### 2.1 Sample design

### 2.1.1 Type of sampling (stratified, multi-stage, clustered)

The sampling plan is a two-stage probability sampling of housing units (dwellings).

### 2.1.2 Sampling units (one stage, two stage)

The primary sampling unit, corresponding to the selection of the master sample, is a group of census sections (census enumeration areas EAs).

The secondary (ultimate) sampling unit, corresponding to the selection of the survey sample, has been a fix number of dwellings from each PSU.

### 2.1.3 Stratification and sub-stratification criteria

Stratification concerns only the first stage sampling. There are 88 strata, the criteria used being the area where a certain PSU is located (urban or rural area) and county (NUTS 3 level).

### 2.1.4 Sample size and allocation criteria

For the fourth wave, one subsample of the year 2008, one subsample of the year 2009, one subsample of the year 2010 had to be followed-up in 2011, plus one new subsample of dwellings which entered in the sample in 2011. Because sample size is a random variable due to the tracing rules, for 2011 operation, sample size of new rotation corresponds to 2341 households, and 2010 subsistent rotations comprise 5810 households.

### 2.1.5 Sample selection schemes

In the first stage, a stratified random sample of 780 areas, Primary Sampling Units (PSUs), was designed after the 2002 census. The PSUs were sampled with probability proportional to size (number of permanent dwellings). This is the

Multifunctional Sample of Territorial Areas, so called the master sample EMZOT. The EMZOT sample has 427 PSUs selected from urban area and 353 PSUs selected from rural area. In the second stage, dwelings are systematically selected from EMZOT. All households within each dwelling are included.

### 2.1.6 Sample distribution over time

The sample is not distributed over time.

### 2.1.7 Renewal of sample: Rotational groups

The survey uses the integrated four-years rotational panel design, in which onefourth of the sample is replaced each year. In 2011, one sub-sample, S4, left the survey and a new one (S8) entered for the first time. The total sample for the year 2011 is made by the sub-samples S5, S6, S7 and S8.


### 2.1.8 Weightings

Weighting factors have been calculated taking into account the units probability of selection, non-response adjustment and the calibration to external data
relating to the distribution of persons in the target population. The weights are calculated in three steps. The first step assigns the inverse of the selection probabilities to each sampled dwelling unit. The second step adjusts for nonresponse. The third and final step consists of calibrating the secondary weights, for each wave, by region, to the best latest available population totals.

### 2.1.8.1 Design factor

## Wave 1(subsample selected in 2011)

The design factor of the household is the inverse of inclusion probability. The design factor for households and for individuals are the same, because in each selected dwelling, all persons are selected for the survey.

In case of the households at the second, third and four wave, an indirect sampling of households is done through the panel (of persons aged 14+ at the time of the panel selection). In this case, the inclusion probabilities cannot be calculated. Then, the solution consists of applying the Weight Share Method.

Wave 2(subsample selected in 2010)
The design factors of households are calculated through the individual base weights. The individual base weights are obtained from cross-sectional weights calculated in previous year 2010 inflated with attrition. Co-residents are given zero base weight.

Wave 3(subsample selected in 2009)
There are two situations:
.a. The sample person was a respondent in 2010. The base weight is calculated taking into account the base weight of previous year and then corrected both: attrition between 2010 and 2011 and compensation of the re-entrees.
.b. The sample person was a non-respondent in 2010 (re-entrees) In this case the base weight is obtain taking into account the cross-sectional weight RB050 calculated in 2009 corrected for the attrition between 2009-2011. For co-residents the weight is equal with zero.

Wave 4(subsample selected in 2008)

The approach is similar with the previous wave and two cases are distinguished, too:
.a. The sample person was a respondent in 2010 The base weight is calculated taking into account the base weight of previous year and then corrected both: attrition between 2010 and 2011 and compensation of the re-entrees.
.b. The sample person was a non-respondent in 2010. In this case the base weight is obtain taking into account the base weight calculated in 2009 corrected for the attrition between 2009-2011.
For co-residents the weight is equal with zero.

### 2.1.8.2 Non-response adjustments

In order to contra balance the non-respondent households, it is proceed at a reweighting, by adjusting the weights of the respondent households with the inverse of the response rate.

The non-response are not globally adjusted, at the entire sample level, but separately-at wave level, on groups of households, groups generated by the variables considered as explicative of the non response. This correspond to the so-called 'response-homogenous groups' method, which assumes that in a certain group all the units have the same probability. For wave 1 we used as explicative variables for nonresponse region (NUTS II level) and area of residence (urban / rural) and for the second, third and four ${ }^{\text {th }}$ th wave - the region. In order to minimize the effects induced by the presence of non-response another adjustment is done: re-weighting by calibration of the weights.

### 2.1.8.3 Adjustments to external data (level, variables used and sources)

We applied an integrative calibration that means that we used both households and personal variables in the procedure. The calibration is performed at the household level using the household variables and individual variables in their aggregate form as calibration variables. This technique ensures that all members in the same household receive the same weight. Adjustments were made using the SAS macro CALMAR. Calibration variables were: "distribution of the population by age group
( $0-15 ; 16-24 ; 25-34 ; 35-49 ; 50-64 ; 65-74 ; 75$ and over), area of residence (urban $\backslash$ rural) and gender" using Romanian Population Estimates at the end of the income reference period and ''households totals by region'".

### 2.1.8.4 Final cross-sectional weights

Three cross-sectional weights were calculated:

1) Household cross-sectional weight (DB090)
2) Personal cross-sectional weight for all household members (RB050)
3) Personal cross-sectional weight for all household members aged 16 and over (PB040)

### 2.1.9 Substitutions

No substitution of unit non-response has been applied.

### 2.2 Sampling errors

Sampling errors were calculated for the common cross-sectional EU indicators based on the cross-sectional component of EU-SILC. Particularly, sampling errors were estimated with the JRR method using the software developed by Siena University (EUSILC-Report 06 for the Intermediary Quality).

### 2.2.1 Standard errors and effective sample size

The following table contains respectively the value, the absolute sampling error, the Kish indices and the achieved sample size for each of the indicators:

| Nr crt | Subpopulation | est | stat_se | kish | n |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | HCR | 0,2277 | 0,0075 | 1,2265 | 17950 |
| 2 | HCR, after social transfers: Age 0-17 | 0,3345 | 0,0174 | 1,1056 | 2309 |


| 3 | HCR, after social transfers: Age 18-24 | 0,2906 | 0,0194 | 1,1511 | 1431 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | HCR, after social transfers: Age 25-49 | 0,2232 | 0,0099 | 1,1641 | 5644 |
| 5 | HCR, after social transfers: Age 50-64 | 0,1656 | 0,0098 | 1,2482 | 4340 |
| 6 | HCR, after social transfers: Age 65+ | 0,1430 | 0,0113 | 1,1195 | 4226 |
| 7 | HCR, after social transfers: Male | 0,2245 | 0,0091 | 1,2341 | 8668 |
| 8 | HCR, after social transfers: Female | 0,2307 | 0,0075 | 1,2196 | 9282 |
| 9 | HCR, after social transfers: Male Age 0-17 | 0,3266 | 0,0236 | 1,1108 | 1215 |
| 10 | HCR, after social transfers: Male Age 18-24 | 0,2848 | 0,0219 | 1,1578 | 779 |
| 11 | HCR, after social transfers: Male Age 25-49 | 0,2283 | 0,0113 | 1,1654 | 2816 |
| 12 | HCR, after social transfers: Male Age 50-64 | 0,1677 | 0,0130 | 1,2502 | 2064 |
| 13 | HCR, after social transfers: Male Age 65+ | 0,0844 | 0,0098 | 1,1382 | 1794 |
| 14 | HCR, after social transfers: Female Age 0-17 | 0,3427 | 0,0202 | 1,0998 | 1094 |
| 15 | HCR, after social transfers: Female Age 18-24 | 0,2967 | 0,0236 | 1,1397 | 652 |
| 16 | HCR, after social transfers: Female Age 25-49 | 0,2179 | 0,0095 | 1,1615 | 2828 |
| 17 | HCR, after social transfers: Female Age 50-64 | 0,1638 | 0,0088 | 1,2462 | 2276 |
| 18 | HCR, after social transfers: Female Age 65+ | 0,1825 | 0,0145 | 1,1104 | 2432 |
| 19 | HCR, after social transfers: Male Age 18+ | 0,1996 | 0,0077 | 1,2513 | 7453 |
| 20 | HCR, after social transfers: Female Age 18+ | 0,2065 | 0,0065 | 1,2229 | 8188 |
| 21 | HCR, after social transfers: Male Age 18-64 | 0,2204 | 0,0090 | 1,2099 | 5659 |
| 22 | HCR, after social transfers: Female Age 18-64 | 0,2129 | 0,0074 | 1,2085 | 5756 |
| 23 | HCR, after social transfers: Male Age 0-64 | 0,2442 | 0,0102 | 1,1937 | 6874 |
| 24 | HCR, after social transfers: Female Age 0-64 | 0,2408 | 0,0085 | 1,1952 | 6850 |
| 25 | HCR, after social transfers: One person hh under 65 years | 0,1999 | 0,0237 | 1,0782 | 902 |
| 26 | HCR, after social transfers: One person hh 65 years and over | 0,2421 | 0,0208 | 1,0229 | 1381 |
| 27 | HCR, after social transfers: One person hh male | 0,1651 | 0,0191 | 1,0436 | 812 |
| 28 | HCR, after social transfers: One person hh female | 0,2547 | 0,0221 | 1,0461 | 1471 |
| 29 | HCR, after social transfers: One person hh total | 0,2245 | 0,0192 | 1,0458 | 2283 |
| 30 | HCR, after social transfers: 2 adults, no dependant children, both adults under 65 years | 0,1311 | 0,0131 | 1,1000 | 2576 |
| 31 | HCR, after social transfers: 2 adults, no dependant children, at least one adult 65 years or more | 0,0952 | 0,0127 | 1,1532 | 2486 |
| 32 | HCR, after social transfers: Other hh without dependant children | 0,1233 | 0,0137 | 1,0953 | 2550 |
| 33 | HCR, after social transfers: Single parent hh, one or more dependant children | 0,3847 | 0,0724 | 1,1401 | 262 |
| 34 | HCR, after social transfers: 2 adults, one dependant child | 0,1754 | 0,0226 | 1,1535 | 2160 |
| 35 | HCR, after social transfers: 2 adults, two dependant children | 0,2629 | 0,0241 | 1,0407 | 1780 |
| 36 | HCR, after social transfers: 2 adults, three or more dependant children | 0,5316 | 0,0542 | 1,0794 | 492 |
| 37 | HCR, after social transfers: Other hh with dependant children | 0,2705 | 0,0199 | 1,1344 | 3073 |
| 38 | HCR, after social transfers: Hh without dependant children | 0,1379 | 0,0094 | 1,1268 | 9895 |
| 39 | HCR, after social transfers: Hh with dependant children | 0,2697 | 0,0117 | 1,1307 | 7767 |
| 40 | HCR, after social transfers: Accommodation tenure status:Owner or rent free | 0,2192 | 0,0080 | 1,2344 | 17231 |
| 41 | HCR, after social transfers: Accommodation tenure status:Tenant | 0,1239 | 0,0521 | 1,1891 | 225 |
| 42 | HCR, after social transfers: Main activity status: Employed | 0,1938 | 0,0092 | 1,1745 | 6877 |
| 43 | HCR, after social transfers: Main activity status: Unemployed | 0,4970 | 0,0383 | 1,2001 | 375 |


| 44 | HCR, after social transfers: Main activity status: Retired | 0,1155 | 0,0077 | 1,1632 | 6078 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | HCR, after social transfers: Main activity status: Other inactive | 0,3386 | 0,0161 | 1,1895 | 2399 |
| 46 | HCR, after social transfers: Main activity status: Employed, Male | 0,2151 | 0,0106 | 1,1872 | 3920 |
| 47 | HCR, after social transfers: Main activity status: Unemployed, Male | 0,5797 | 0,0398 | 1,1726 | 262 |
| 48 | HCR, after social transfers: Main activity status: Retired, Male | 0,0869 | 0,0077 | 1,2177 | 2652 |
| 49 | HCR, after social transfers: Main activity status: Other inactive, Male | 0,2638 | 0,0243 | 1,1371 | 649 |
| 50 | HCR, after social transfers: Main activity status: Employed, Female | 0,1648 | 0,0105 | 1,1464 | 2957 |
| 51 | HCR, after social transfers: Main activity status: Unemployed, Female | 0,3105 | 0,0597 | 1,1487 | 113 |
| 52 | HCR, after social transfers: Main activity status: Retired, Female | 0,1359 | 0,0099 | 1,1352 | 3426 |
| 53 | HCR, after social transfers: Main activity status: Other inactive, Female | 0,3666 | 0,0179 | 1,2056 | 1750 |
| 54 | HCR, after social transfers: Work intensity: hh without dependent children, w=0 | 0,1485 | 0,0167 | 1,2121 | 2020 |
| 55 | HCR, after social transfers: Work intensity: hh without dependent children, $0<w<1$ | 0,1127 | 0,0172 | 1,0936 | 2273 |
| 56 | HCR, after social transfers: Work intensity: hh without dependent children, w=1 | 0,1429 | 0,0158 | 1,0959 | 2546 |
| 57 | HCR, after social transfers: Work intensity: hh with dependent children, w=0 | 0,6701 | 0,0493 | 1,1238 | 329 |
| 58 | HCR, after social transfers: Work intensity: hh with dependent children, $0<w<0.5$ | 0,5033 | 0,0509 | 1,1216 | 574 |
| 59 | HCR, after social transfers: Work intensity: hh with dependent children, $0.5<=w<1$ | 0,2884 | 0,0236 | 1,1163 | 2826 |
| 60 | HCR, after social transfers: Work intensity: hh with dependent children, w=1 | 0,1861 | 0,0161 | 1,1104 | 3961 |
| 61 | HCR, before social transfers including pensions | 0,2977 | 0,0098 | 1,2343 | 17950 |
| 62 | HCR, before social transfers including pensions: Age 0-17 | 0,4315 | 0,0170 | 1,1207 | 2309 |
| 63 | HCR, before social transfers including pensions: Age 18-24 | 0,3591 | 0,0201 | 1,1522 | 1431 |
| 64 | HCR, before social transfers including pensions: Age 25-49 | 0,2913 | 0,0108 | 1,1744 | 5644 |
| 65 | HCR, before social transfers including pensions: Age 50-64 | 0,2486 | 0,0142 | 1,2567 | 4340 |
| 66 | HCR, before social transfers including pensions: Age 65+ | 0,1685 | 0,0120 | 1,1485 | 4226 |
| 67 | HCR, before social transfers including pensions: Male | 0,2971 | 0,0101 | 1,2347 | 8668 |
| 68 | HCR, before social transfers including pensions: Female | 0,2984 | 0,0108 | 1,2339 | 9282 |
| 69 | HCR, before social transfers including pensions: Male Age 0-17 | 0,4169 | 0,0201 | 1,1207 | 1215 |
| 70 | HCR, before social transfers including pensions: Male Age 18-24 | 0,3691 | 0,0230 | 1,1614 | 779 |
| 71 | HCR, before social transfers including pensions: Male Age 25-49 | 0,2968 | 0,0119 | 1,1731 | 2816 |
| 72 | HCR, before social transfers including pensions: Male Age 50-64 | 0,2567 | 0,0161 | 1,2466 | 2064 |


| 73 | HCR, before social transfers including pensions: Male Age 65+ | 0,1072 | 0,0094 | 1,1851 | 1794 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 74 | HCR, before social transfers including pensions: Female Age 0-17 | 0,4468 | 0,0218 | 1,1196 | 1094 |
| 75 | HCR, before social transfers including pensions: Female Age 18-24 | 0,3486 | 0,0264 | 1,1384 | 652 |
| 76 | HCR, before social transfers including pensions: Female Age 25-49 | 0,2856 | 0,0111 | 1,1747 | 2828 |
| 77 | HCR, before social transfers including pensions: Female Age 50-64 | 0,2414 | 0,0142 | 1,2664 | 2276 |
| 78 | HCR, before social transfers including pensions: Female Age 65+ | 0,2098 | 0,0179 | 1,1340 | 2432 |
| 79 | HCR, before social transfers including pensions: Male Age 18+ | 0,2678 | 0,0095 | 1,2519 | 7453 |
| 80 | HCR, before social transfers including pensions: Female Age 18+ | 0,2663 | 0,0105 | 1,2356 | 8188 |
| 81 | HCR, before social transfers including pensions: Male Age 18-64 | 0,2969 | 0,0110 | 1,2112 | 5659 |
| 82 | HCR, before social transfers including pensions: Female Age 18-64 | 0,2814 | 0,0107 | 1,2153 | 5756 |
| 83 | HCR, before social transfers including pensions: Male Age 0-64 | 0,3238 | 0,0114 | 1,1961 | 6874 |
| 84 | HCR, before social transfers including pensions: Female Age 0-64 | 0,3169 | 0,0115 | 1,2060 | 6850 |
| 85 | HCR, before social transfers excluding pensions | 0,5002 | 0,0091 | 1,2281 | 17950 |
| 86 | HCR, before social transfers excluding pensions: Age 0-17 | 0,5075 | 0,0173 | 1,1277 | 2309 |
| 87 | HCR, before social transfers excluding pensions: Age 18-24 | 0,4295 | 0,0192 | 1,1584 | 1431 |
| 88 | HCR, before social transfers excluding pensions: Age 25-49 | 0,3660 | 0,0097 | 1,1751 | 5644 |
| 89 | HCR, before social transfers excluding pensions: Age 50-64 | 0,5125 | 0,0113 | 1,2702 | 4340 |
| 90 | HCR, before social transfers excluding pensions: Age 65+ | 0,8603 | 0,0101 | 1,5353 | 4226 |
| 91 | HCR, before social transfers excluding pensions: Male | 0,4868 | 0,0101 | 1,2186 | 8668 |
| 92 | HCR, before social transfers excluding pensions: Female | 0,5129 | 0,0094 | 1,2385 | 9282 |
| 93 | HCR, before social transfers excluding pensions: Male Age 0-17 | 0,4886 | 0,0191 | 1,1276 | 1215 |
| 94 | HCR, before social transfers excluding pensions: Male Age 18-24 | 0,4460 | 0,0226 | 1,1652 | 779 |
| 95 | HCR, before social transfers excluding pensions: Male Age 25-49 | 0,3793 | 0,0120 | 1,1688 | 2816 |
| 96 | HCR, before social transfers excluding pensions: Male Age 50-64 | 0,4665 | 0,0141 | 1,2520 | 2064 |
| 97 | HCR, before social transfers excluding pensions: Male Age 65+ | 0,8899 | 0,0119 | 1,6133 | 1794 |
| 98 | HCR, before social transfers excluding pensions: Female Age 0-17 | 0,5273 | 0,0241 | 1,1265 | 1094 |
| 99 | HCR, before social transfers excluding pensions: Female Age 18-24 | 0,4121 | 0,0241 | 1,1451 | 652 |
| 100 | HCR, before social transfers excluding pensions: Female Age 25-49 | 0,3523 | 0,0099 | 1,1808 | 2828 |
| 101 | HCR, before social transfers excluding pensions: Female Age 50-64 | 0,5538 | 0,0124 | 1,2959 | 2276 |


| 102 | HCR, before social transfers excluding pensions: Female Age 65+ | 0,8403 | 0,0121 | 1,4899 | 2432 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 103 | HCR, before social transfers excluding pensions: Male Age 18+ | 0,4863 | 0,0097 | 1,2290 | 7453 |
| 104 | HCR, before social transfers excluding pensions: Female Age 18+ | 0,5098 | 0,0087 | 1,2469 | 8188 |
| 105 | HCR, before social transfers excluding pensions: Male Age 18-64 | 0,4133 | 0,0102 | 1,2021 | 5659 |
| 106 | HCR, before social transfers excluding pensions: Female Age 18-64 | 0,4218 | 0,0084 | 1,2064 | 5756 |
| 107 | HCR, before social transfers excluding pensions: Male Age 0-64 | 0,4301 | 0,0107 | 1,1912 | 6874 |
| 108 | HCR, before social transfers excluding pensions: Female Age 0-64 | 0,4444 | 0,0093 | 1,2011 | 6850 |
| 109 | Median equivalised disposable income | 8820,0000 | 249,0496 | 1,2281 | 17950 |
| 110 | At-risk-of-poverty threshold | 5292,0000 | 149,4297 | 1,2281 | 17950 |
| 111 | At-risk-of-poverty threshold, one person hh | 4792,5978 | 140,9835 | 1,0855 | 2283 |
| 112 | At-risk-of-poverty threshold, hh 2 adults 2 dependent children | 4729,9200 | 244,2635 | 1,1008 | 1780 |
| 113 | S80/S20 | 6,7721 | 0,3113 | 1,2210 | 17950 |
| 114 | Relative median at-risk-of-poverty gap | 0,3379 | 0,0156 | 1,2281 | 3890 |
| 115 | Relative median at-risk-of-poverty gap: Age 017 | 0,3702 | 0,0508 | 1,1270 | 797 |
| 116 | Relative median at-risk-of-poverty gap: Age 1824 | 0,3713 | 0,0636 | 1,1628 | 424 |
| 117 | Relative median at-risk-of-poverty gap: Age 2549 | 0,3509 | 0,0239 | 1,1793 | 1269 |
| 118 | Relative median at-risk-of-poverty gap: Age 5064 | 0,3320 | 0,0136 | 1,2651 | 748 |
| 119 | Relative median at-risk-of-poverty gap: Age 65+ | 0,1967 | 0,0133 | 1,1943 | 652 |
| 120 | Relative median at-risk-of-poverty gap: Male | 0,3602 | 0,0393 | 1,2217 | 1793 |
| 121 | Relative median at-risk-of-poverty gap: Female | 0,3210 | 0,0259 | 1,2341 | 2097 |
| 122 | Relative median at-risk-of-poverty gap: Male Age 0-17 | 0,3847 | 0,0321 | 1,1287 | 411 |
| 123 | Relative median at-risk-of-poverty gap: Male Age 18-24 | 0,3622 | 0,0475 | 1,1642 | 231 |
| 124 | Relative median at-risk-of-poverty gap: Male Age 25-49 | 0,3538 | 0,0314 | 1,1703 | 631 |
| 125 | Relative median at-risk-of-poverty gap: Male Age 50-64 | 0,3717 | 0,0492 | 1,2617 | 364 |
| 126 | Relative median at-risk-of-poverty gap: Male Age more then 64 | 0,1885 | 0,0215 | 1,1843 | 156 |
| 127 | Relative median at-risk-of-poverty gap: Female Age 0-17 | 0,3456 | 0,0215 | 1,1245 | 386 |
| 128 | Relative median at-risk-of-poverty gap: Female Age 18-24 | 0,3802 | 0,0246 | 1,1566 | 193 |
| 129 | Relative median at-risk-of-poverty gap: Female Age 25-49 | 0,3487 | 0,0231 | 1,1885 | 638 |
| 130 | Relative median at-risk-of-poverty gap: Female Age 50-64 | 0,2981 | 0,0367 | 1,2680 | 384 |
| 131 | Relative median at-risk-of-poverty gap: Female Age more then 64 | 0,2063 | 0,0204 | 1,1986 | 496 |
| 132 | Median income below the at-risk-of-poverty threshold | 3503,8095 | 73,9444 | 1,2281 | 3890 |
| 133 | Dispersion around the risk-of-poverty threshold 40\% | 0,1155 | 0,0071 | 1,2861 | 17950 |
| 134 | Dispersion around the risk-of-poverty threshold 50\% | 0,1695 | 0,0078 | 1,2545 | 17950 |
| 135 | Dispersion around the risk-of-poverty threshold 70\% | 0,2968 | 0,0080 | 1,2293 | 17950 |
| 136 | Gini coefficient | 0,3278 | 0,0057 | 1,2208 | 17680 |
| 137 | Mean equivalised disposable income | 10178,05 | 204,72 | 1,2366 | 17680 |

### 2.3 Non-sampling errors

### 2.3.1 Sampling frame and coverage errors

Due to the lack of appropriate information, the new dwellings, built after 2002 Census of the Population and Dwellings, that could possibly constitute a sampling frame of the new dwellings, have not been taken into account. Thus, an updates has be done for the PSU included in EMZOT in 2007 year, on the basis of a micro-census type survey. The micro-census has aimed in particular the updating of the addresses of the dwellings. Under-coverage rate was estimated as the ratio between number of new dwellings, built in the period end of 2002 year (the year of the census)- end of 2009 year and number of dwellings at the end of 2009 year (Source: Romanian Statistical Yearbook, 2010). Thus, it was assumed that the proportion of the new dwellings in total dwellings should be the same in the master sample. Under-coverage rate was $4,6 \%$. Over-coverage rate was estimated on the basis of the survey sample, as ratio between number of not-eligible dwellings (not-existing addresses, or being non-residential or unoccupied or not the main addresses) and number of sampled dwellings (all addresses selected). Over-coverage rate was $2.21 \%$.

### 2.3.1.1 Achieved sample size

## - Number of households for which an interview is accepted for the database by rotational group

| ROTATIONAL GROUP | households | percentage |
| :--- | :---: | :---: |
| DB075=3 | 1980 | 24.3 |
| DB075=4 | 2341 | 28.7 |
| DB075=1 | 1869 | 22.9 |
| DB075=2 | 1961 | 24.1 |
| Total | $\mathbf{8 1 5 1}$ | $\mathbf{1 0 0 . 0}$ |

### 2.3.2 Measurement and processing errors

### 2.3.2.1 Measurement errors

As in any other survey, there are 3 main sources of measurement errors:

- the questionnaires (1)
- the interviewers (2)
- the respondents (3)
(1) We used three types of questionnaires:
- the household file;
- the household questionnaire, with the detailed questions regarding the household;
- the individual questionnaire, which was fulfilled for each person 15 years or more, in order to record better the incomes of the people less than 16 years.

The questionnaires were up-dated with the improvements based on the 2010 survey conclusions and the 2011 secondary module.
The structure of questionnaires was the following:

## * The household file included:

- identification data;
- the household composition - name, identificator, date of birth, sex, the relatives' code (mother's, father's and husband's/wife's), sample-person or co-resident, person's mobility compared with first wave, month and year when the current person left the household/came into the sampled household (if was the case), economic status during the income reference period etc.; - some questions about household identification;

The household file is design and used all four years a person is included in the survey.

## * The household questionnaire included:

- identification data;
- data regarding child care for all the children less than 12 years;
- questions regarding economic situation of the household (housing and non-housing related arrears, non-monetary household deprivation questions); endowment with durable goods;
- housing conditions (including information about dwelling and dwelling environment, housing cost, amenities in the dwelling);
- taxes paid at household level for the year 2010;
- household incomes in 2010;


## * The individual questionnaire:

- identification data;
- questions regarding de jure and de facto marital status; first and second citizenships; country of birth; year of immigration in Romania;
- questions regarding the health status; limitations in activities due to a medical problem; unmeet need for medical, respectively dental consultation; reasons for the unmeet need for medical and dental consultation;
- level of education questions (the school attended currently, the highest level of education attended and the year when the person graduated this level);
- questions regarding the 2011 secondary module (2011 Module on intergenerational transmission of disadvantages);
- questions regarding detailed information about employment/nonemployment;
- individual incomes achieved in 2010.

In order to help the data collection activities, other materials were designed by the methodological team:
-the letter for the households - a paper sheet in which the objectives of the EU-SILC
survey is presented, the importance of the people participation is highlighted and the confidentiality of the data is guarantied.

- the list of the dwelling and households included in the sample (LG) is a document with two parts: first one included the exact addressees selected to carry-out the interviews. The second part included the situation found on the field for each address. This document is very useful for the interviewers and supervisors in order to check the integrity of the data collected.
- the tracing file, was a paper sheet designed in order to identify households/persons which moved from the initial addresses from the first wave. The paper sheet fulfilled by the county from which they left were sent to the NIS methodological team and they sent again in the county where the information collected show they moved in. These counties proceeded to follow-up and interviewed them, in the case they founded.
(2) The main challenge for the interviewers in the fifth wave was to administer the tracing rules. Beside this, the recording of the accurate incomes was the second very difficult task.

A handbook was prepared with all the information available to help the interviewers in the fields work activities. Explanations for a big number of questions from all the questionnaires were included. Aspects related to the followup of households/persons and the construction of identifiers was explained in this handbook also. A special section included some recommendations about the behavior in the respondents' presence and the way the interviewers should convince population to participate to this survey.

Other aspects:

- some interviewers used very seldom some household identification numbers for the households and individuals from the new sub-sample, which were overlapped with some old households from the sub-samples which left the survey in 2008 and 2009; all these identification numbers were corrected;
- co-resident and sample-person; some interviewers changed the code of coresidents in sample-person for the persons who attained 15 years old in 2011 because of the age;
- presence in the household created confusion for the members who are abroad for an un-known period of time; in other surveys there was a special code - abroad for these persons. The implication on household's income and the definition of the household (share of incomes or expenditures) made difficult to establish if these persons are or not the household members;
- another aspect which created confusion was the classification of the household members which came back in the household after a wave in which they left the country (so was not in the coverage of the survey one year before).
(3) For respondents, the most difficult information to declare was the value of incomes in the previous calendar year, the social insurance contribution and the taxes on wealth. Another difficult answer was related to the housing cost, also the question was preceding by a helping question in which they were asked what kind of housing cost that household is actually paying, in order to be sure the respondent is thinking at the elements of the housing cost are recommended by EU-SILC methodology to be included here.
Some households found difficult to estimate the rent they would receive if they would rent the dwelling.


### 2.3.2.2 Processing errors

During the field work period and data processing period several checks were done.
Data editing and cleaning was done in two steps: firstly, at the level of each county and secondly, after the counties' files will be sent to INS team, a second check was done by EU-SILC central team.

At the county level, after data collection, supervisors had the duty to check the integrity of the questionnaires (one household file and at least one household questionnaire per household and as many personal questionnaires as household
members 16 years and more exists). During data entry, checking software was applied at county level. The counties sent the files at central level and a new check was done on the national files.

The checking software included 3 types of checks: checks at each questionnaire level (household and personal questionnaires), checks for the correlation between the information included in household and personal questionnaires, and a third type of checks, integrity checks, if all the addresses included in the sample were visited (if questionnaires completed exist for each address included in the sample). Inside each type of questionnaire there were 2 types of logical conditions: to see if all the compulsory questions were fulfilled and to check if the answers were correct (for quantitative variables minimal and maximal limits were established, and for qualitative variables logical conditions were tested).

After the data files in the EUROSTAT format were obtained, a third data check was done, using the EUROSTAT software available on Circa user group.

The process of cleaning the data took a long time and imposed special efforts both from the county teams and central metodological team in order to obtain the 4 microdata files in Eurostat format, due to the big number of variables and numerous corelations between them. A special kind of difficulties were related to the special codification of the split-of/moved hoseholds/persons in the original files.

### 2.3.3.1 Unit non-response

## Household non-response rates (NRh)

- Number of addresses successfully contacted $($ DB120 $=11): 7944$
-Number of valid addresses selected (DB120 $>23$ ): 7971

Ra (address contact rate): 99.66\%
-Number of household interviews completed and accepted for database (DB135=1): 7675
-Number of eligible households at contact addresses (DB130 filled): 7910
$\mathbf{R h}$ (proportion of complete household interviews accepted for database): 97.03\%
$\mathbf{N R h}($ household non-response rate $)=(1-(\mathrm{Ra} * \mathrm{Rh})) * 100=\mathbf{3 . 3 \%}$

## Individual non-response rates (NRp)

-Number of personal interviews completed (RB250 = 11 + $12+13$ ): 15974
-Number of eligible individuals in the households whose interviews were completed and accepted for the database ( $\mathrm{RB} 245=1+2+3$ ): 16010
$\mathbf{R p}$ (proportion of complete personal interviews within the households accepted for the database): $\mathbf{9 9 . 7 8 \%}$

NRp (individual non-response rate): 0.22\%

## Overall individual non-response rates (*NRp)

$\mathbf{R a}$ (address contact rate): $\mathbf{9 9 . 6 6 \%}$
$\mathbf{R h}$ (proportion of complete household interviews accepted for database):
97.03\%

Rp (proportion of complete personal interviews within the households accepted for the database): $\mathbf{9 9 . 7 8 \%}$
*NRp (overall individual non-response rate) $=\left(1-\left(\mathrm{Ra}^{*} \mathrm{Rh} * \mathrm{Rp}\right)\right)=\mathbf{3 . 5 1 \%}$
2.3.3.3 Distribution of households by "record of contact at address" (DB120) by "household questionnaire result" (DB130) and by "household interview acceptance" (DB135)

Table 1A: Distribution of households by "record of contact at address" (DB120)

|  | Number | \% |
| :--- | :---: | :---: |
| Total | $\mathbf{8 1 5 1}$ | $\mathbf{1 0 0 , 0}$ |
| Address contacted (DB120=11) | $\mathbf{7 9 4 4}$ | $\mathbf{9 7 . 5}$ |
| Address non-contacted (DB120=21 U 22 U 23) | $\mathbf{2 0 7}$ | $\mathbf{2 . 5}$ |
| from which: |  |  |
| - address cannot be located (DB120=21) | 4 | 0.04 |
| - address unable to access (DB120=22) | 23 | 0.3 |
| - address does not exist, is not residential | 180 | 2.2 |
| $\quad$ address or unoccupied (DB120=23) |  |  |

Table 1B: Distribution of households by "household questionnaire result" (DB130)

|  | Number | \% |
| :--- | :---: | :---: |
| Total | $\mathbf{7 9 1 0}$ | $\mathbf{1 0 0 , 0}$ |
| Household questionnaire completed (DB130=11) | $\mathbf{7 6 7 8}$ | $\mathbf{9 7 . 1}$ |
| Interview not completed, from which: | $\mathbf{2 3 2}$ | $\mathbf{2 . 9}$ |
| - refusal to cooperate (DB130=21) | 118 | 1.5 |
| $-\quad$ entire household temporary away for duration | 56 | 0.7 |
| $\quad$ of fieldwork $(\mathrm{DB} 130=22)$ |  |  |
| $-\quad$ household unable to respond $(\mathrm{DB} 130=23)$ | 58 | 0.7 |
| $-\quad$ other reasons $(\mathrm{DB} 130=24)$ | - | - |

Table 1C: Distribution of households by "household interview acceptance" (DB135)

|  | Number | \% |
| :--- | :---: | :---: |
| Household questionnaire completed | $\mathbf{7 6 7 8}$ | $\mathbf{1 0 0 , 0}$ |
| - interview accepted for the database (DB135=1) | $\mathbf{7 6 7 5}$ | $\mathbf{9 9 , 9 6}$ |
| - interview rejected (DB135=2) | $\mathbf{3}$ | $\mathbf{0 , 0 4}$ |

### 2.3.3.4 Distribution of substituted units

We did not allow substituting units.

### 2.3.4 Item non-response

We have no item non-response due to the checking programs used at the county level which show these missing data and the supervisors have to solve it: first of all, the questionnaire is checked in order to find if it is an operator's mistake and
secondly, the household is asked again if the information was not supplied from the beginning. Finnaly, item non-response imputation is applied, if it is the case.

### 2.4 Method of data collection

The method of data collection was face-to-face personal interviews, using paper questionnaires. The interviewers visited the addresses selected in the sample and fulfilled the questionnaires, based on the interviews. The household questionnaire was fulfilled by interview with the household head and individual questionnaire by interview with each household member 16 years old and more.

Table 2: Distribution of households members 16 years old and over by data status

|  | Number | \% |
| :---: | :---: | :---: |
| Total | 16010 | 100,0 |
| Information of interview completed | 15974 | 99.8 |
| - information completed only from interview (RB250=11) | 15974 | 99.8 |
| information completed only from registers ( $\mathrm{RB} 250=12$ ) | na | na |
| - information completed both from interview and registers $(\mathrm{RB} 250=13)$ | na | na |
| Interview not completed, though contact made | 3 | 0.02 |
| - individual unable to answer and no proxy possible $(\mathrm{RB} 250=21)$ | 1 |  |
| - failed to return the self-administrated questionnaire $(\mathrm{RB} 250=22)$ | na | na |
| - refusal to cooperate ( $\mathrm{RB} 250=23$ ) | 2 |  |
| Individual not contacted because: | 33 | 0.2 |
| - person temporarily away and no proxy possible (RB250=31) | 16 | 0.1 |
| no contact for other reasons (RB250=32) | 12 | 0.08 |
| Information not completed, reason unknown (RB250=33) | 5 | 0.02 |

Table 3: Distribution of household members by the respondent status

|  | Number | \% |
| :--- | :---: | :---: |
| Total | $\mathbf{1 8 3 4 7}$ | 100,0 |
| - Current household member aged 16 years and over (RB245=1) | 16010 | 89.2 |
| - Selected respondent (RB245=2) | na | na |
| - non-selected respondent $($ RB245=3) | na | na |
| - not eligible respondent $($ RB245=4) | 1940 | 10.8 |

Table 4: Distribution of households members aged 16 years old and over by the type of interview

|  | Number | $\%$ |
| :--- | :---: | :---: |
| Total | $\mathbf{1 5 9 7 4}$ | $\mathbf{1 0 0 , 0}$ |
| - Questionnaire completed -face-to-face interview PAPI (RB260=1) | $\mathbf{1 3 4 9 8}$ | $\mathbf{8 4 . 5}$ |
| - Questionnaire completed -face-to-face interview CAPI (RB260=2) | na | na |
| - Questionnaire completed -CATI $($ RB260 $=3)$ | na | na |
| - Self-administrated by respondent $($ RB260=4) | na | na |
| - Proxy interview $($ RB260=5) | $\mathbf{2 4 7 6}$ | $\mathbf{1 5 . 5}$ |

### 2.5 Interview duration

The average household interview duration was 21.0 minutes.
The average individual interview duration was 20.3 minutes.

### 2.6 Collection of variable company car

The following information was collected in the individual questionnaire:

- the type of the car;
- the model;
- the registration year;
- number of months in 2010 the car was at the disposal of the person for private use;

The company car value was calculated as:
Company car value $=$ number of months*selling price*[1-100*(2011- registration year)/10]/12

The selling prices of the cars by type of car and producer were taken from the List of manufactures recommended retail prices of the Competition DG report.

## 1. COMPARABILITY

### 3.1 Basic concepts and definitions

### 3.1.1 The reference population

The reference population is all private households and their current members residing in the territory of the Romania at the time of data collection. Persons living in collective households and in institutions are excluded from the target population.

### 3.1.2 The dwelling definition

The dwelling is the unit formed by one or more rooms, having in general annexes (kitchen, bathroom etc.) or other utility spaces, the unit being independent from the functional point of view, having separate entrance from the space of the staires, from the yard or from the street and which was build, transformed or arranged in order to be inhabitatted.

### 3.1.3 The household definition

Household is defined as a person living alone or a group of persons who live together in the same dwelling and share expenditures including the joint provision of the essentials of living.

### 3.1.4 The household membership

We used the same household membership definition as the Eurostat recommended in the document EU-SILC 065.

### 3.1.5 The income reference period

No departure from the common definition.
We used a fixed income reference period of twelve-month, more exactly the previous calendar year (January - December 2010).

### 3.1.6 The period for taxes on income and social insurance contribution

No departure from the common definition.
The repayments and receipts for tax adjustment referring to the income taxes recalculated for the global income gained in 2009 and they were collected if there were paid/received during the calendar 2010.

### 3.1.7 Activity status during the income reference period

No departure from the common definition.

### 3.1.8 Total duration of data collection

Data collection period was 16 May - 3 June 2011.

### 3.2 Components of income

The main goal of this survey is a correct estimation of the gross and disposable income of the households. In order to achieve this goal, the household and individual questionnaires included a long list of income components, currently existing in Romania (46 income components in individual questionnaire and 18 income components in the household questionnaire). From all these elements we calculated income components at household and individual level corresponding to the income variables for households and persons and in the final, we aggregated all in the gross
(HY010) and disposable income (HY020) for each household who accepted the interview.

The total gross and disposable household incomes, as the each component of the total income were calculated in the following way:

## * Total household gross income

HY010 $=\sum \mathrm{PY} 010 \mathrm{G}+\sum \mathrm{PY} 050 \mathrm{G}+\sum \mathrm{PY} 090 \mathrm{G}+\sum \mathrm{PY} 100 \mathrm{G}+\sum \mathrm{PY} 110 \mathrm{G}+$ $\sum \mathrm{PY} 120 \mathrm{G}+\sum \mathrm{PY} 130 \mathrm{G}+\sum \mathrm{PY} 140 \mathrm{G}+\mathrm{HY} 040 \mathrm{G}+\mathrm{HY} 050 \mathrm{G}+\mathrm{HY} 060 \mathrm{G}+\mathrm{HY} 070 \mathrm{G}$ + HY080G + HY090G + HY110G

* Total household disposable income

HY020 $=\sum \mathrm{PY} 010 \mathrm{G}+\sum \mathrm{PY} 050 \mathrm{G}+\sum \mathrm{PY} 090 \mathrm{G}+\sum \mathrm{PY} 100 \mathrm{G}+\sum \mathrm{PY} 110 \mathrm{G}+$ $\sum \mathrm{PY} 120 \mathrm{G}+\sum \mathrm{PY} 130 \mathrm{G}+\sum \mathrm{PY} 140 \mathrm{G}+\mathrm{HY} 040 \mathrm{G}+\mathrm{HY} 050 \mathrm{G}+\mathrm{HY} 060 \mathrm{G}+\mathrm{HY} 070 \mathrm{G}$

+ HY080G + HY090G + HY110G - HY120G - HY130G - HY140G
* Total household disposable income, before social transfers other than old age and survivors' benefits

HY022 $=$ HY020 $-\left(\sum \mathrm{PY} 090 \mathrm{G}+\sum \mathrm{PY} 120 \mathrm{G}+\sum \mathrm{PY} 130 \mathrm{G}+\sum \mathrm{PY} 140 \mathrm{G}\right)-\mathrm{HY} 050 \mathrm{G}-$ HY060G - HY070G

* Total household disposable income, before social transfers including old age and survivors' benefits

$$
\begin{aligned}
& \mathrm{HY} 023=\mathrm{HY} 020-\left(\sum \mathrm{PY} 090 \mathrm{G}+\sum \mathrm{PY} 100 \mathrm{G}+\sum \mathrm{PY} 110 \mathrm{G}+\sum \mathrm{PY} 120 \mathrm{G}+\sum \mathrm{PY} 130 \mathrm{G}\right. \\
& \left.+\sum \mathrm{PY} 140 \mathrm{G}\right)-\mathrm{HY} 050 \mathrm{G}-\mathrm{HY} 060 \mathrm{G}-\mathrm{HY} 070 \mathrm{G}
\end{aligned}
$$

* Imputed rent (HY030N)

The value of imputed rent was estimated at the household level (and included in the personal file for only one person per household) from the household budget survey (HBS), using the stratification method. The HBS includes arround 37000 households and it is conducted continuosly during each year.

## INCOME COLLECTED AT HOUSEHOLD LEVEL

* Income from rental of property or land (HY040N)
- Rent received for renting land, buildings, dwellings or rooms
* Family/children related allowances (HY050N)
- Child allowance
- Complementary family allowance
- Allowance for new-born children
- Allowance for monoparental families
- Allowance paid to families which rise children in family placement
- Allowance accorded at the moment the family is born
- Benefit for the maternal leave or for leave due to child care (collected in the personal questionnaire)
- Benefit for leave due to child care (collected in the personal questionnaire)
* Social exclusion payments not elsewhere classified (HY060N)
- Benefit for persons without incomes/ with low incomes
- Benefit for dwelling heating
- Emergency benefit for urgent situations (natural disasters etc.)


## * Housing allowances (HY070N)

We didn't identify any allowance or benefit to be included in this category.

* Regular inter-household cash transfers received (HY080N)
* Interest, dividends, profit from capital investments in unincorporated business (HY090N)
- Interests
- Dividends
- Profit from capital investments in unincorporated business
* Income received by people aged under 16 (HY110N)
- Income received by people aged under 16 (collected in the household questionnaire);
- Personal gross/net income of people 15 years old (collected in the personal questionnaire)
* Regular inter-household transfers paid (HY130N)
* Tax on income and social insurance contribution (HY140N)
income tax retained at source for wages
- anticipated income tax for own account activities
- income tax retained at source for pensions
- regular taxes on wealth

The value of own consumption was estimated at the household level (and included in the personal file for only one person per household) from the household budget survey (HBS), using the stratification method. The HBS includes around 37000 households and it is conducted continuously during each year.

## INCOMES COLLECTED AT PERSONAL LEVEL

* Employee cash or near cash income (PY010G/PY010N)
- Salaries and other employees rights
* Non-cash employee income (PY020G/PY020N)
- In-kind employee salaries
- Non-cash employee income

For these incomes we collected: net amount, if the income tax was retained at source, deduction and other amounts retained at source.

* Cash benefits or losses from self employment (PY050G/PY050N)
- Cash income received from agricultural associations
- Incomes from sales of agricultural products, animals and poltry
- Incomes from agricultural work carried-out for other households or persons
- Incomes from commerce
- Incomes from services carried-out
- Incomes from trade
- Incomes from liberal professions
- Incomes from royalties

For all these incomes we collected also: anticipatated income tax and social contributions (unemployment, health and pension). The sums are collected in the form of profit or loss.

* Unemployment benefits (PY090G/PY090N)
- Unemployment benefit,
- Compensatory payment for collective firing
* Old age benefits (PY100G/PY100N)
- Social inssurance pension for old age limit
- Anticipated social inssurance pension
- Social benefit (in the form of pension)
- Social inssurance pension for farmers
- Pension for war invalids, war orphans and war widows (excluding survivals' pension)
- Social benefit for war's veterans and war's widows
* Survivor's benefits (PY110G/PY110N)
- Survival social inssurance pension
- Allowance or other money rights for survivals of persons dead during 1989

Revolution

- Allowance in case of the death of a family member
* Sickness benefits (PY120G/PY120N)
- Sickness benefit
* Disability benefits (PY130G/PY130N)
- Social inssurance pension for work incapacity
- Special allowance for handicapped persons
* Education-related allowances (PY140G/PY140N)
- Scholarships
- Cash amount received by people attained high-school included in the program "Money for high-school"
* Repayments/receipts for tax adjustment for the income achieved in 2008 (HY145N)


### 3.2.2 The source or procedure for the collection of income variables

The source for the collection of income variables was paper and pencil interviews for all income variables, including the money drawn out of business by the selfemployed. We did not used administrative records.

The use of the justificative documents regarding the incomes was the respondents' decision.

### 3.2.3 The form in which income variables at component level have been obtained

The majority of income components were recorded net and the gross variables were obtained by adding at the net values, the value of income tax retained at source and social contributions paid (in the case of wages, we add the value of other sums retained at source, too).

### 3.2.4 The method used for obtaining income target variables at the required form

The only income components calculated in the process of data editing were:

- the value of income tax retained at source for salaries (we have a flat rate of $16 \%$ for income tax), the respondents being asked only if they paid or not the income tax for wage;
- the exact value of the social insurance contribution retained at source for salaries, if this was declared in the form of an interval.
- the value of income tax retained at source and social insurance contributions for pensions (if the pension was bigger than 1000 lei);
- the interest for dividends and money withdrawn from the banks;


## 4. COHERENCE

### 4.1 Comparison of income target variables with external sources

A very exact comparison between incomes from HBS and EU-SILC data is not possible due to some methodological differences, more exactly, differences at the level of income elements collected and included in the EU-SILC.

The differences between these two surveys it is possible to be due to the greater value of the income taxes and social insurance contributions for wages, own account activities and pensions in EU-SILC, where these elements are automatical calculated (if the person declared there were paid). In HBS the person should declare himself the value of these components in the diary.

A better comparison can be made between at-risk-of-poverty indicators calculated from both surveys.

| Poverty threshold -lei, for one person annually- | 5527 | 5349 |
| :--- | ---: | :---: |
| At-risk-of-poverty rate (after all social transfers) -\%- | 22.6 | 22.2 |
| Dispersion around the poverty threshold -\%- |  |  |
| - at-risk-of-poverty rate at 40\% of median | 9.5 | - |
| - at-risk-of-poverty rate at 50\% of median | 15.9 | - |
| - at-risk-of-poverty rate at 70\% of median | 29.9 | - |
| Relative median risk-of-poverty gap -\%- | 27.7 | 30.6 |
| At-risk-of-poverty rate before social transfers -\%- | 49.6 |  |
| - including pensions | 27.2 | 47.4 |
| - excluding pensions | 5.8 | 27.5 |
| S80/S20 quartile share ratio | 33.7 | 6.2 |
| Gini Coefficient -\%- |  | 33.2 |

