

“Income inequality in Europe. Analysis of recent trends at the regional level”

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Abstract

The evolution of income inequality is becoming a great concern all over the World, particularly since the start of the Great Recession. In this work we analyse the main trends of income inequality in Europe over the last decade, both at the national and regional level. Our results point to a large diversity in inequality patterns, as we observe both increases and decreases in inequality both at the regional and at the national level. The EU2020 Strategy aims achieving an inclusive economic growth, benefitting the largest possible number of people. We briefly analyse the main factors impacting inequality and finally derive several policy implications.

JEL classification: R11, R12, O15, O3, F61

Keywords: Inequality, Globalisation, Technological change, European regions.

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1. Introduction

Income inequality is a natural result of individual and economic performance of individuals. Individual heterogeneity in talent and effort will result in a variety of income results and consequently in a certain level of overall inequality. Nevertheless, there is also a wide list of circumstances that may also affect economic outcomes without being related to personal talent or effort. The economic literature usually points to different incentives to work, barriers to physical and human capital accumulation or heterogeneous effects on the income distribution of aggregate shocks.

Inversely, income inequality can be a factor potentially affecting economic growth. On one side, inequality can be growth enhancing because richer people enjoy higher savings rate, or simply for being the result of higher incentives for risk taking. On the other side, income inequality may result in higher taxes, political conflict, lower capital accumulation and a smaller market size of the middle income class, what would result in smaller economic growth.¹

Both academics and policy makers are concerned with the evolution of inequality and its negative effect on development. On the one side, works such as Krugman (2008), Stiglitz (2009) and Rajan (2010) have emphasized the role of inequality in the growth process and particularly on the evolution of inequality as a cause and natural consequence of the Great Recession. On the other side, the EU2020 Strategy aims achieving an inclusive economic growth, benefitting the largest possible number of people, while other international institutions are also fully concerned with inequality issues: for instance, the OECD is involved in the Inclusive Growth Initiative (De Mello and Dutz, 2012), while since 2011 the Human Development Report of the United Nations considers the *inequality-adjusted* Human Development Index.

In this work we analyse the main trends of income inequality in Europe over the last decade, both at the national and regional level. We also analyse the main factors explaining inequality regional distribution and its recent evolution. In the remainder of the present work we first review the evolution of income inequality in Europe since the early nineties up to the Great Recession. Next, we propose a simple regression model

¹ As there is a vast literature analysing such effects, we propose the reader to check Ehrhart (2009), Galor (2009), Neves and Silva (2014) and Castells-Quintana and Royuela (2014b) for comprehensive overviews of theoretical and empirical evidence on the relationship between inequality and economic growth.

where we try to analyse the main factors affecting income inequality in Europe at the regional level. We conclude with the main findings and several policy conclusions.

2. Analysis of the recent evolution of inequality in the EU

The main objective of this section is to analyse the evolution of inequality in the income distribution in European countries and regions since the early nineties up to the Great Recession. The first part of the period was characterised by the convergence process by an important part of EU countries before the adoption of the euro while the last years of the period are characterised by the impact of the global downturn, together with the bursting of housing bubble and the need to undertake a major fiscal adjustment in several EU countries. The focus of the section is on the short-run evolution of income inequality in Europe both from a national and regional perspective.

Database and variable definition

In order to analyse inequality trends we use the information contained in the European Community Household Panel (ECHP) and the European Union Survey on Income and Living Conditions (EU-SILC).

The ECHP survey contains data on individuals and households for 15 European countries, with eight waves available (1994–2001). The information is homogeneous across countries, as the questionnaires are similar and the procedures to collect the information were coordinated by Eurostat. The EU-SILC provides information of a wider sample of European countries (28 EU member states plus Iceland, Norway and Switzerland) starting in 2004. Currently, seven waves are available covering the period from 2004 to 2012. Data for the 2004 wave is only available for a few countries and the 2012 wave does not provide information for Belgium and Ireland. Data for 2005 and 2006 is also incomplete for some EU member states. Both surveys provide detailed information on annual income. Appendix 1 shows the list of countries from ECHP and EU-SILC considered here.

In order to compare income inequality across countries and its evolution, we have calculated inequality measures based on the concept of “equivalised” household disposable income according to Eurostat. The definition of household annual disposable

income includes income from wages and salaries, self-employment incomes, realised property incomes, cash transfers from the general government less taxes and social security contributions paid by the households. So, equivalised disposable income is the total income of a household after tax and other deductions that is available for spending or saving divided by the number of household members converted into equalised adults. Household members are equalised or made equivalent by weighting each according to age using the modified OECD equivalence scale as suggested by Eurostat. This scale gives a weight to all members of the household (and then adds these up to arrive at the equivalised household size): 1.0 to the first adult; 0.5 to the second and each subsequent person aged 14 and over; and 0.3 to each child under the age of 14.

In order to analyse income inequality using ECHP and EU-SILC microdata we have calculated four different measures of inequality. In particular, we have calculated the Gini coefficient, the decile ratio (P9010, the ratio between the ninth and the first decile), the P5010 (the ratio between the fifth and the first decile) and the P9050 (the ratio between the ninth and the fifth decile). All calculations have been carried out using personal cross-sectional weights.

The geographic breakdown used in the paper is defined according to the NUTS-1 regional classification. The choice is mainly related by practical considerations on data availability and comparability across ECHP and EU-SILC. The list of considered regions is shown in Appendix 2.

Recent evolution of income inequality in European countries and regions

Table 1 shows the value of the Gini index for annual equivalised household income for European countries in four particular reference years: 1996, 2000, 2007 and 2011². It also shows changes in the Gini index from 1996 to 2000, from 2000 to 2007 and from 2007 to 2011. For the first two years, 15 countries are analysed while for the two second periods, the sample is enlarged up to 30 countries due to differences in geographical coverage from ECHP to EU-SILC. Full details for the rest of the period and for the other inequality measures different to the Gini index are shown in Appendix 3.

² From ECHP 1997 and 2001 waves and EU-SILC 2008 and 2012 waves, respectively.

If we look at the first column of table 1, we can see that according to the values of the Gini index we can group the fifteen considered countries into three categories: the first group would be composed of Denmark, Sweden and Finland, that is, those countries with the smallest degree of inequality (Gini index below 0.25). Luxembourg, Austria, the Netherlands, Germany, Belgium and France would form a second group (Gini index between 0.25 and 0.30). Finally, Italy, the United Kingdom, Ireland, Spain, Greece and Portugal have the highest levels of inequality (Gini index above 0.30). If we move across columns up to more recent years, we can see two relevant features: first, that relative positions have not changed too much (Netherlands and Denmark exchanged their positions and France and Ireland) and, the second, that although the evolution of inequality has been rather heterogeneous among countries, the predominant trend has been to decrease. As we can see in figure 1, between 1996 and 2000 inequality decreased in 9 out of the 15 considered countries, in 10 out of the 15 between 2000 and 2007 and, last, in 8 out of 15 between 2007 and 2011.

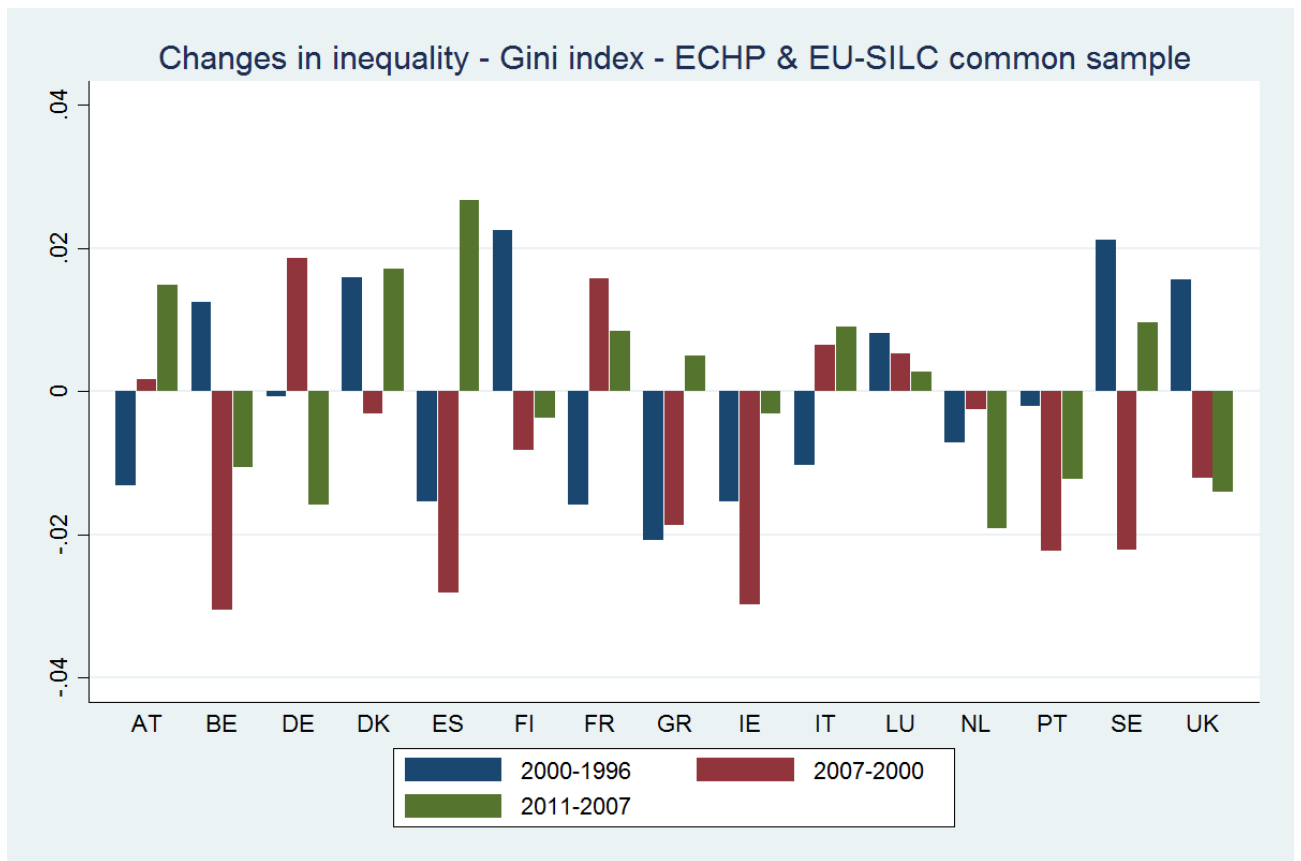
If we now focus on the period 2007-2011 and the 30 considered countries, average inequality levels among new EU members and other European countries in 2007 was quite similar to the one observed in old EU members with an average of the Gini index close to 0.29. Slovenia, Slovakia and Norway have low levels of inequality; the Czech Republic, Hungary, Iceland, Malta and Cyprus are part of the intermediate inequality group: and, last, Estonia, Switzerland, Poland, Lithuania, Bulgaria, Romania and Latvia are the ones with higher levels of inequality. Croatia will also be part of this group if we consider 2011 data. Figure 2 shows the changes in the Gini index from 2007 to 2011 in the considered countries. Inequality has increased in nearly half of the sample. The country with a higher absolute change in the index is Spain, followed by Cyprus, Hungary, Slovakia, Denmark, Austria and Estonia. In all these countries the Gini index has increased in more than 1 point between 2007 and 2011. The countries where the index has shown more pronounced reductions are Iceland, Romania, the Czech Republic and Bulgaria. It is worth mentioning that the evolution of inequality in the EU countries more affected by the sovereign debt crisis has been diverse: while in Spain inequality has substantially increased, in Greece has just slightly increased and in Portugal and Ireland has decreased.

Table 1. Gini index and changes in Gini index in European countries

| Reference year | Gini index | | | | Changes in Gini index | | |
|----------------|------------|--------|--------|--------|-----------------------|-----------|-----------|
| | 1996 | 2000 | 2007 | 2011* | 1996-2000 | 2000-2007 | 2007-2011 |
| AT | 0.2725 | 0.2594 | 0.2611 | 0.2759 | -0.0131 | 0.0017 | 0.0149 |
| BE* | 0.2897 | 0.3021 | 0.2715 | 0.2609 | 0.0124 | -0.0306 | -0.0107 |
| DE | 0.2796 | 0.2789 | 0.2976 | 0.2816 | -0.0007 | 0.0186 | -0.0159 |
| DK | 0.2311 | 0.2470 | 0.2439 | 0.2610 | 0.0159 | -0.0032 | 0.0171 |
| ES | 0.3530 | 0.3377 | 0.3095 | 0.3362 | -0.0154 | -0.0282 | 0.0266 |
| FI | 0.2478 | 0.2703 | 0.2621 | 0.2584 | 0.0225 | -0.0082 | -0.0037 |
| FR | 0.2958 | 0.2798 | 0.2956 | 0.3040 | -0.0159 | 0.0157 | 0.0084 |
| GR | 0.3655 | 0.3446 | 0.3259 | 0.3309 | -0.0209 | -0.0187 | 0.0050 |
| IE* | 0.3445 | 0.3291 | 0.2993 | 0.2961 | -0.0154 | -0.0298 | -0.0032 |
| IT | 0.3092 | 0.2990 | 0.3054 | 0.3143 | -0.0103 | 0.0064 | 0.0090 |
| LU | 0.2610 | 0.2691 | 0.2743 | 0.2769 | 0.0080 | 0.0052 | 0.0027 |
| NL | 0.2785 | 0.2713 | 0.2688 | 0.2496 | -0.0072 | -0.0025 | -0.0191 |
| PT | 0.3821 | 0.3800 | 0.3577 | 0.3454 | -0.0021 | -0.0223 | -0.0123 |
| SE | 0.2357 | 0.2568 | 0.2346 | 0.2442 | 0.0211 | -0.0222 | 0.0096 |
| UK | 0.3312 | 0.3467 | 0.3346 | 0.3205 | 0.0155 | -0.0122 | -0.0140 |
| BG | | | 0.3593 | 0.3344 | | | -0.0248 |
| CH | | | 0.3114 | 0.2863 | | | -0.0251 |
| CY | | | 0.2891 | 0.3097 | | | 0.0207 |
| CZ | | | 0.2472 | 0.2488 | | | 0.0015 |
| EE | | | 0.3079 | 0.3212 | | | 0.0133 |
| HR | | | | 0.3033 | | | |
| HU | | | 0.2510 | 0.2689 | | | 0.0179 |
| IS | | | 0.2716 | 0.2375 | | | -0.0341 |
| LT | | | 0.3362 | 0.3168 | | | -0.0194 |
| LV | | | 0.3729 | 0.3543 | | | -0.0186 |
| MT | | | 0.2772 | 0.2710 | | | -0.0063 |
| NO | | | 0.2424 | 0.2234 | | | -0.0190 |
| PL | | | 0.3187 | 0.3091 | | | -0.0096 |
| RO | | | 0.3601 | 0.3322 | | | -0.0279 |
| SI | | | 0.2342 | 0.2378 | | | 0.0035 |
| SK | | | 0.2355 | 0.2527 | | | 0.0171 |

Note: Own calculations from ECHP and EU-SILC micro data. Detailed results are shown in appendix 3. As 2011 data for Belgium and Ireland is not currently available, we have used the value of the Gini Index for 2010 as a reference year.

Figure 1. Changes in Gini index in selected EU countries



Note: Own calculations from ECHP and EU-SILC micro data. As 2011 data for Belgium and Ireland is not currently available, we have used the value of the Gini Index for 2010 as a reference year.

Figure 2. Changes in Gini index from 2000 to 2007 in European countries



Note: Own calculations from EU-SILC micro data. As 2011 data for Belgium and Ireland is not currently available, we have used the value of the Gini Index for 2010 as a reference year.

Table 2 provides a similar overview of the evolution of inequality measured by the Gini index as in table 1, but instead of focusing on European countries, it provides evidence for NUTS1 regions. In particular, it contains information for the 39 regions available both in ECHP and EU-SILC. These regions belong to the same countries shown in the top panel of table 1 with the only exception of Germany and the United Kingdom. In the first case, no regional data is provided in EU-SILC for 2007 and 2011 and in the second case, changes in the definition of regions has not allowed us to calculate comparable inequality indicators. Details for the different waves of ECHP and EU-SILC and the whole set of NUTS1 regions available in EU-SILC (84 regions) is provided in Appendix 4 and Appendix 5, respectively.

Inequality trends observed at the regional level are similar than those observed at the country level. In most regions, inequality has decreased between 1996 and 2007, but

from 2007 and 2010, inequality has increased in 29 out of the 39 regions available both in ECHP and EU-SILC.

Differences in intraregional inequality measured by the Gini index for disposable income are higher than between countries. For instance, in 1996, the range of the national Gini index is 15 points while when looking at regions is 17 points. A similar result is observed when looking at the common sample of regions and countries in ECHP and EU-SILC: in 2011 the range of the Gini index is 10 points for countries but 14 points for regions.

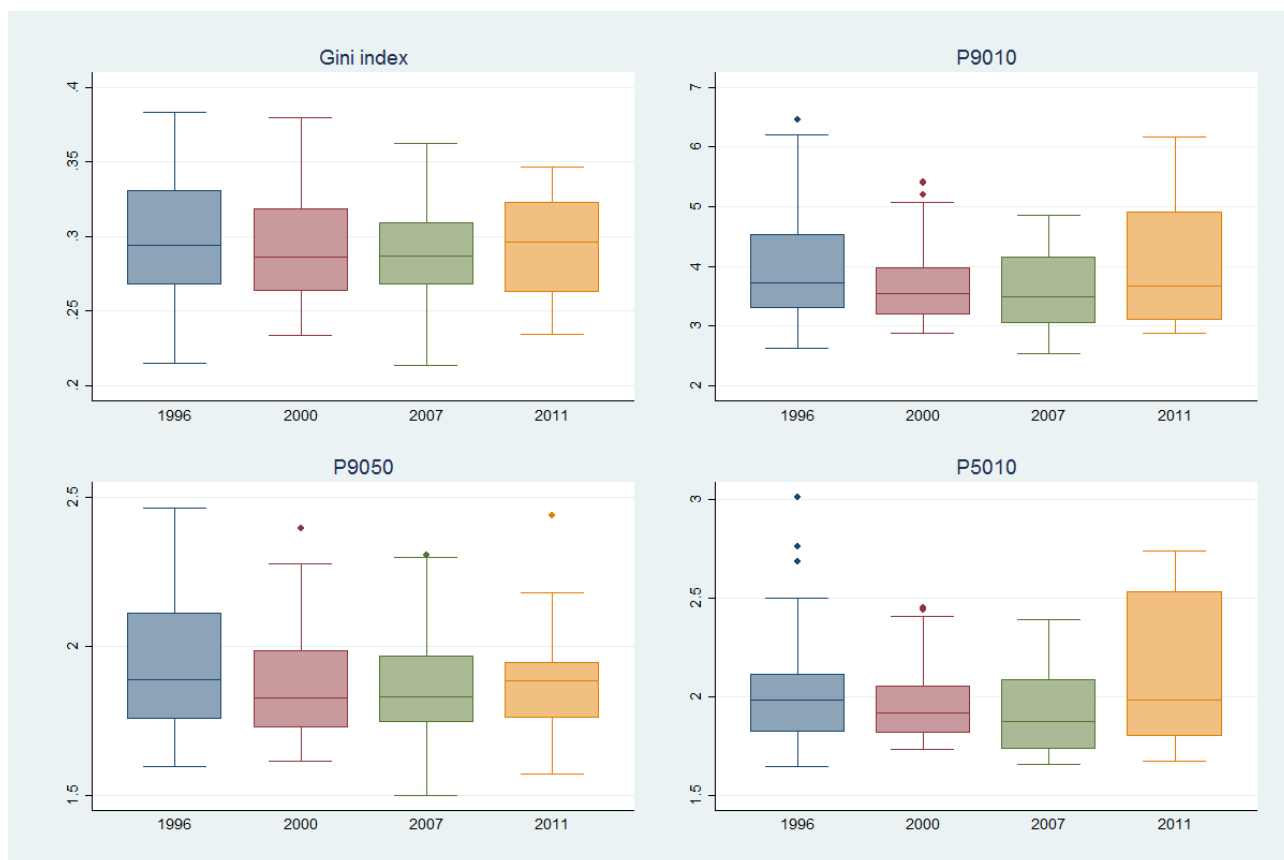
Figure 3 shows the box plots of the four inequality measures considered (Gini, P9010, P5010, P9050) for those regions available both in ECHP and EU-SILC. From these figures, we can see that the main results already described for the Gini index also hold for the other three measures. However, there is one result that is worth to highlight: from 2007 and 2011, regional differences have clearly increased when looking at inequality in the left side of the distribution (lower income levels) but not so much in the right side of the distribution (higher income levels). This result could be clearly related to the differential effect of the Great Recession in European regions.

Table 2. Gini index and changes in Gini index in selected European regions (ECHP & EU-SILC common sample)

| | Gini index | | | | Changes in Gini index | | |
|---------|------------|--------|--------|--------|-----------------------|-----------|-----------|
| | 1996 | 2000 | 2007 | 2011 | 1996-2000 | 2000-2007 | 2007-2011 |
| AT1 | 0.2756 | 0.2761 | 0.2729 | 0.2975 | 0.0005 | -0.0033 | 0.0246 |
| AT2 | 0.2616 | 0.2452 | 0.2384 | 0.2544 | -0.0164 | -0.0068 | 0.0160 |
| AT3 | 0.2675 | 0.2417 | 0.2585 | 0.2606 | -0.0258 | 0.0167 | 0.0021 |
| BE1 | 0.2941 | 0.3186 | 0.3624 | 0.3587 | 0.0245 | 0.0438 | -0.0037 |
| BE2 | 0.2840 | 0.2853 | 0.2500 | 0.2432 | 0.0013 | -0.0353 | -0.0069 |
| BE3 | 0.2941 | 0.3214 | 0.2734 | 0.2535 | 0.0272 | -0.0480 | -0.0199 |
| DK0 | 0.2304 | 0.2457 | 0.2439 | 0.2610 | 0.0153 | -0.0019 | 0.0171 |
| EL1 | 0.3833 | 0.3414 | 0.3076 | 0.3103 | -0.0418 | -0.0338 | 0.0027 |
| EL2 | 0.3642 | 0.3448 | 0.3447 | 0.3095 | -0.0194 | 0.0000 | -0.0353 |
| EL3 | 0.3307 | 0.3084 | 0.3200 | 0.3331 | -0.0223 | 0.0115 | 0.0132 |
| EL4 | 0.3501 | 0.3049 | 0.2898 | 0.2915 | -0.0452 | -0.0151 | 0.0018 |
| ES1 | 0.3466 | 0.3149 | 0.2732 | 0.3169 | -0.0317 | -0.0417 | 0.0437 |
| ES2 | 0.3225 | 0.3097 | 0.2715 | 0.3145 | -0.0128 | -0.0382 | 0.0430 |
| ES3 | 0.3408 | 0.3161 | 0.3101 | 0.3248 | -0.0246 | -0.0060 | 0.0147 |
| ES4 | 0.3296 | 0.3363 | 0.3158 | 0.3360 | 0.0066 | -0.0204 | 0.0202 |
| ES5 | 0.3258 | 0.3292 | 0.3007 | 0.3231 | 0.0034 | -0.0285 | 0.0224 |
| ES6 | 0.3501 | 0.2940 | 0.3145 | 0.3404 | -0.0561 | 0.0205 | 0.0259 |
| ES7 | 0.3794 | 0.3584 | 0.3119 | 0.3465 | -0.0210 | -0.0465 | 0.0345 |
| FI | 0.2478 | 0.2703 | 0.2621 | 0.2584 | 0.0225 | -0.0082 | -0.0037 |
| FR1 | 0.3042 | 0.2969 | 0.3282 | 0.3461 | -0.0073 | 0.0313 | 0.0180 |
| FR2 | 0.2752 | 0.2467 | 0.2675 | 0.2764 | -0.0286 | 0.0208 | 0.0089 |
| FR3 | 0.2620 | 0.2565 | 0.2676 | 0.2809 | -0.0054 | 0.0111 | 0.0133 |
| FR4 | 0.2487 | 0.2355 | 0.2665 | 0.2784 | -0.0132 | 0.0310 | 0.0119 |
| FR5 | 0.2825 | 0.2633 | 0.2766 | 0.2625 | -0.0192 | 0.0133 | -0.0141 |
| FR6 | 0.3063 | 0.2830 | 0.3092 | 0.3290 | -0.0233 | 0.0262 | 0.0199 |
| FR7 | 0.2753 | 0.2645 | 0.2965 | 0.2882 | -0.0107 | 0.0320 | -0.0084 |
| FR8 | 0.3016 | 0.2768 | 0.2950 | 0.2952 | -0.0248 | 0.0182 | 0.0002 |
| IE0 | 0.3445 | 0.3291 | 0.2993 | 0.2961 | -0.0154 | -0.0298 | -0.0032 |
| ITC | 0.2734 | 0.2562 | 0.2872 | 0.2963 | -0.0172 | 0.0310 | 0.0091 |
| ITF | 0.3153 | 0.3021 | 0.3089 | 0.3216 | -0.0132 | 0.0068 | 0.0127 |
| ITG | 0.3271 | 0.3267 | 0.3081 | 0.3165 | -0.0004 | -0.0186 | 0.0084 |
| ITH_ITD | 0.2861 | 0.2882 | 0.2749 | 0.2831 | 0.0021 | -0.0133 | 0.0081 |
| ITI_ITE | 0.2990 | 0.2863 | 0.2932 | 0.3013 | -0.0127 | 0.0069 | 0.0081 |
| LU0 | 0.2610 | 0.2648 | 0.2743 | 0.2769 | 0.0038 | 0.0094 | 0.0027 |
| NL | 0.2785 | 0.2713 | 0.2688 | 0.2496 | -0.0072 | -0.0025 | -0.0191 |
| PT | 0.3821 | 0.3800 | 0.3577 | 0.3454 | -0.0021 | -0.0223 | -0.0123 |
| SE1 | 0.2474 | 0.2761 | 0.2518 | 0.2543 | 0.0287 | -0.0243 | 0.0025 |
| SE2 | 0.2332 | 0.2425 | 0.2242 | 0.2347 | 0.0093 | -0.0183 | 0.0105 |
| SE3 | 0.2150 | 0.2341 | 0.2139 | 0.2353 | 0.0191 | -0.0202 | 0.0214 |

Note: Own calculations from ECHP and EU-SILC micro data. Detailed results are shown in Appendix 4 and Appendix 5. As 2011 data for Belgian and Irish regions is not currently available, we have used the value of the Gini Index for 2010 as a reference year.

Figure 3. Box plot of inequality measures in selected European regions (EHP & EU-SILC common sample)



Note: Own calculations from ECHP and EU-SILC micro data. Detailed results are shown in Appendix 4 and Appendix 5. As 2011 data for Belgian and Irish regions is not currently available, we have used the value of the Gini Index for 2010 as a reference year.

3. Factors affecting income inequality

The literature points to a list of factors related to the existence of inequality. Barro (2000) points that the main theoretical approach to assessing the determinants of inequality involves the idea of the Kuznets (1955) curve, further developed by Robinson (1976). In this model, a rural and agriculturally based country moves to industrialisation and urbanisation and increases both per capita income and inequality. Thus, initially dominant effect is the increase of a small and rich group of people in industrial and urbanized areas. As the agriculture sector decreases and the industrial and urban sector increases, initially poor people increase their income, what results in a decrease of aggregate inequality. The shifting relationship between development and inequality is

known as the Kuznets inverted-U curve. More recent models such as Greenwood and Jovanovic (1990) include sectoral changes from basic to more sophisticated tasks services, such as financial services. Overall, introducing technological innovations will follow the inverted-U pattern, initially rising inequality as a result of high incomes owned by few persons who get extra benefits of the new technology. Subsequently, as more people moves into the sector enjoying the new technology, inequality is expected to decrease while expanding overall per capita income. Consequently, the level of inequality will be related to the period when modern production techniques are introduced in the economy and on the long run economic development (and other socioeconomic and political aspects) should reduce income inequality (Marrero and Rodríguez, 2014).

The typical way to test the existence of the Kuznets curve is the inclusion of the linear and the quadratic form of the log of the GDP. In addition, a list of control variables is considered. Barro (2000) includes education attainment levels of population, continental dummies and several institutional variables, such as ethnicity, language, religion, democracy and an indicator of openness, which can be linked to the idea of globalization. The Heckscher-Ohlin and Stolper-Samuelson theorems provide a theoretical support for it: increasing openness shift labour demand from unskilled to skilled workers in developed economies, as they are specialized in the production of skill-intensive products and realize their comparative advantage. In contrast, the effect for the less developed areas is ambiguous. Recently, Jaumotte et al. (2008) and Afonso et al. (2013) report evidence that technological progress and globalisation tend to increase the returns to skills and subsequently inequality, being much more important the contribution of technology.

Most of the works analysing inequality are developed at the country level and very few are devoted at the regional level, usually, as a result of reliable data. We believe that the use of regional data is particularly important, as individual can be more affected by local conditions than by national issues. Relevant works analysing the relationship between inequality and economic development are Partridge (2005) for the US, Rodríguez-Pose and Tselios (2008) for Europe and recently Royuela et al. (2014) for the OECD.

Figures 4a to 4d summarises the relationship between the Gini Index and GDP per capita over several years. Clearly, the more developed countries display, on average, lower inequality levels, as predicted by the Kuznets model in the long run. The relationship maybe non-linear, but at a first view it is hard to see any inverted U shape relationship between development and inequality. It is reasonable to think that Europe is already a developed region in the world and that, as a consequence, we only see the negative slope of the inverted-U pattern of the Kuznets curve.

Figure 4. Relationship between inequality (Gini Index) and economic development (GDP per capita)

Figure 4a. 1996.

Figure 4b. 2000.

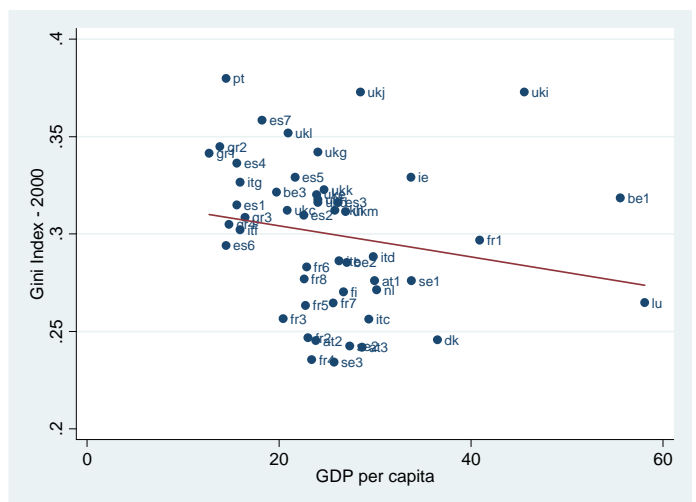
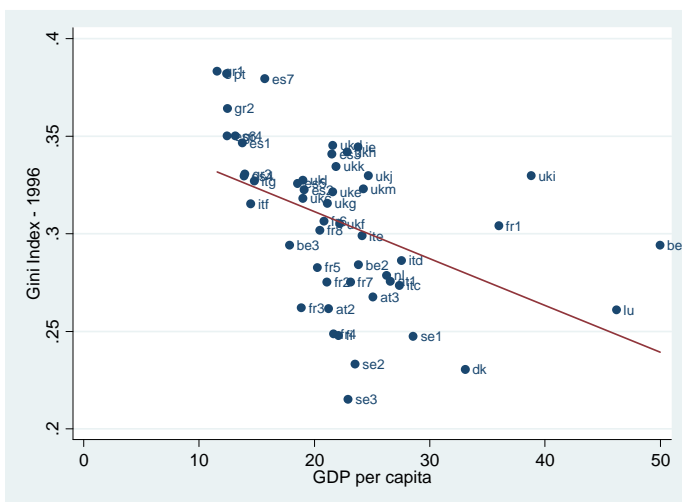
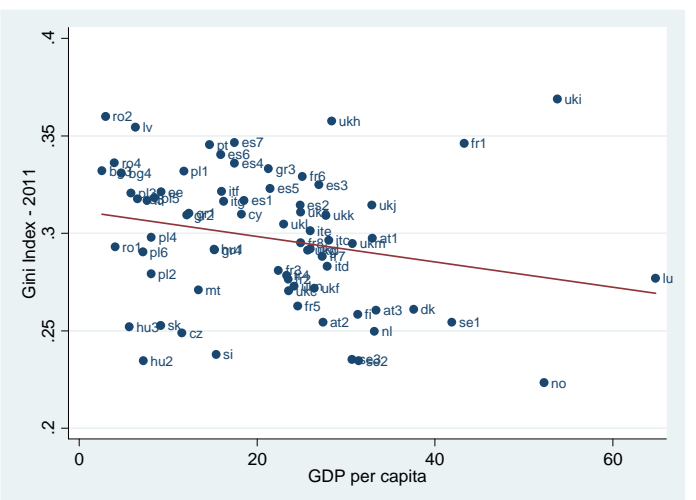
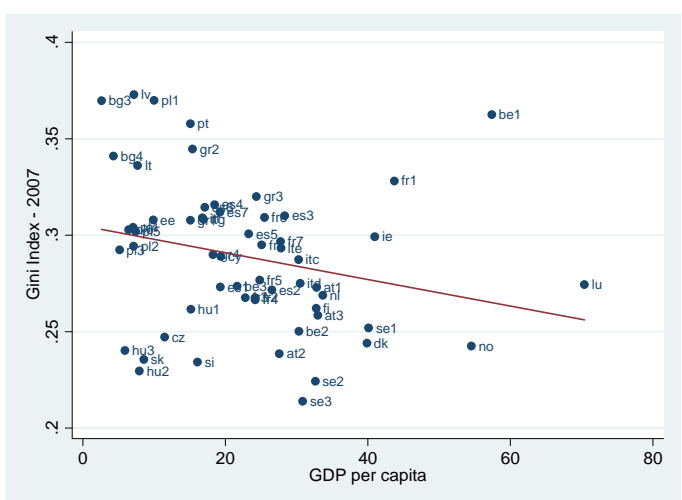


Figure 4c. 2007.

Figure 4d. 2011.



Note: GDP per capita is expressed in thousands 2005 constant price euros per person. Source: Cambridge Econometrics.

The final empirical model we estimate considers an inequality measure against a list of factors. First we include the linear and the quadratic form of the log of the GDP per capita and subsequently we include a list of controls linked to the usual procedure in the empirical literature. In a first stage we estimate the model for several years, in line with the previous section, including initially the log of GDP per capita and its square, sectoral controls (agriculture, construction, financial and business services, and market services) together with a measurement of technological change (persons with tertiary education and/or employed in science and technology) population density, and finally a list of institutional variables (family structure, proportion of Christianity and the unemployment rate, as a composite or reduced form measurement of labour market institutions). Appendix 6 displays the definitions, sources and the descriptive statistics for the variables considered in the empirical analysis.

Table 3 shows the cross section estimates where the Gini index of European regions is regressed against the considered factors over several years. As was previously observed in Figure 4, the Gini index is negatively associated with economic development while we cannot observe any inverted-U shaped curved in any of the considered years. On the contrary, in several models in 1996 and in 2000 we observe higher inequality in more developed regions, what can be linked to the idea of development through innovations associated to increasing inequalities.

As expected, the sectoral composition of the economy matters. Once several new countries are included in the sample associated to the EU-SILC survey (most of them new EU member states), the agriculture sector is associated with higher inequality levels. The construction sector is positively linked with inequality only in the period previous to the Great Recession (2007), what can be linked to the increase of small and rich groups of people in countries with significant housing bubbles. The weight in services associated with commerce, transport communications and tourism (% Trad Serv), what one could link to globalisation in services, is significantly positive in 1996 and in 2011, while the weight in financial and business services (% Finan Serv) is significantly positive in the first periods. The variable associated with technological innovation when significant, is positively associated with inequality.

Density matters and is associated positively with higher levels of inequality. This is somehow a conflicting but important result, as urbanisation is usually linked to

development, and we expect less inequality in more developed regions. Nevertheless, Castells-Quintana and Royuela (2014a) show how inequality associated to agglomeration economies can be a growing factor, particularly when it is observed at initial stages of development with low starting inequality levels. Finally institutions do play a role in determining inequality levels, particularly the second factor associated to family structure. As one can expect, unemployment is positively associated with inequality during the Great Recession (2011), but interestingly is not significant in the remainder periods.

Overall we see inequality negatively associated with development (negatively associated with GDP and positively associated with higher shares in agriculture), positively associated with sectors opened to global competition (agriculture, commerce, transportation and tourism), higher in regions with higher value added services and highly educated workers and/or employed in science and technology, and conditioned by a list of institutions.

We have also performed the estimates considering the time series dimension of the data. Table 4 displays the results of the full model considering the between, the fixed effects and the random effects models. The basic results replicate the basic outcomes of the cross section models. The fixed effects model, which removes all the cross section information of the data, reports again the same results as before. Actually, the only significant differences³ between parameters in the fixed effects and random effects estimates are the ones associated with the linear and the quadratic forms of GDP per capita. In our view this a robust result for the rest of the variables considered in the analysis.

³ These differences have been tested by means of the difference in parameters and the square root of the main diagonal of the joint variance matrix that uses the Hausman test.

Table 3. Inequality regressions. Cross section estimates. 1996, 2000, 2007 and 2011

| | 1996 | | | | 2000 | | | | 2007 | | | | 2011 | | | |
|-----------|------------------------|-----------------------|-------------------------|---------------------------|-----------------------|----------------------|--------------------------|---------------------------|------------------------|----------------------|---------------------------|---------------------------|------------------------|----------------------|-------------------------|------------------------|
| | Eq 01 | Eq 02 | Eq 03 | Eq 04 | Eq 01 | Eq 02 | Eq 03 | Eq 04 | Eq 01 | Eq 02 | Eq 03 | Eq 04 | Eq 01 | Eq 02 | Eq 03 | Eq 04 |
| IGDPpc | -0.0702*** (0.0150) | -0.576*** (0.181) | -0.260 (0.239) | -0.882*** (0.249) | -0.0320** (0.0159) | -0.488** (0.200) | 0.199 (0.320) | -0.508 (0.341) | -0.0180** (0.00699) | -0.0633 (0.0449) | -0.0203 (0.0432) | 0.0547 (0.0793) | -0.0130** (0.00563) | -0.0258 (0.0355) | 0.0202 (0.0439) | -0.0236 (0.0756) |
| IGDPpc2 | | 0.0815*** (0.0291) | 0.0221 (0.0383) | 0.123*** (0.0424) | | 0.0703** (0.0308) | -0.0477 (0.0498) | 0.0478 (0.0563) | | 0.00837 (0.00821) | -0.000228 (0.00801) | -0.0120 (0.0148) | | 0.00248 (0.00678) | -0.00652 (0.00837) | 0.0109 (0.0146) |
| agr_s | | | 0.114 (0.105) | 0.111* (0.0633) | | | 0.157 (0.153) | 0.134 (0.110) | | | 0.391*** (0.110) | 0.423*** (0.118) | | | 0.306*** (0.0889) | 0.395*** (0.120) |
| con_s | | | 0.0993 (0.426) | -0.326 (0.308) | | | 0.988** (0.397) | 0.702* (0.395) | | | 0.600*** (0.182) | 0.769*** (0.241) | | | 0.541 (0.348) | 1.286*** (0.463) |
| sel_s | | | 0.229* (0.120) | 0.208** (0.0786) | | | 0.169 (0.128) | 0.0393 (0.0967) | | | 0.165 (0.111) | 0.122 (0.114) | | | 0.342*** (0.0970) | 0.214** (0.0986) |
| se2_s | | | 0.615** (0.234) | 0.232 (0.205) | | | 0.717** (0.262) | 0.579** (0.252) | | | 0.308* (0.169) | 0.455** (0.218) | | | 0.217 (0.162) | 0.184 (0.210) |
| em_sct | | | -6.95e-06 (9.26e-06) | 2.23e-05*** (7.56e-06) | | | -6.91e-06 (8.75e-06) | 3.26e-05*** (9.80e-06) | | | 9.14e-06* (5.45e-06) | 8.09e-06 (5.91e-06) | | | 0.02e-06* (4.80e-06) | 3.28e-06 (5.05e-06) |
| dens | | | 7.65e-07 (8.07e-06) | -7.89e-06 (5.73e-06) | | | 1.57e-05** (6.91e-06) | 1.38e-05** (6.54e-06) | | | 2.02e-05*** (5.60e-06) | 2.45e-05*** (5.95e-06) | | | 1.11e-05 (2.06e-05) | 0.05** (2.80e-05) |
| fam_01 | | | | 0.00332 (0.0256) | | | | -0.119*** (0.0362) | | | | 0.00484 (0.0189) | | | | 0.0346** (0.0169) |
| fam_02 | | | | -0.223*** (0.0296) | | | | -0.261*** (0.0469) | | | | -0.0646* (0.0328) | | | | 0.103*** (0.0371) |
| christ | | | | 0.0932 (0.0668) | | | | 0.372*** (0.101) | | | | 0.0482 (0.0367) | | | | 0.0154 (0.0328) |
| unemp | | | | -0.0714 (0.0472) | | | | -0.0866 (0.0835) | | | | 0.0832 (0.0612) | | | | 0.201*** (0.0587) |
| Constant | 0.520*** (0.0460) | 1.296*** (0.281) | 0.742* (0.385) | 1.815*** (0.381) | 0.402*** (0.0509) | 1.134*** (0.324) | -0.0689 (0.533) | 1.432** (0.556) | 0.342*** (0.0210) | 0.398*** (0.0595) | 0.175** (0.0691) | 0.0247 (0.112) | 0.334*** (0.0165) | 0.350*** (0.0447) | 0.0969 (0.0710) | -0.00776 (0.104) |
| Obs | 50 | 50 | 36 | 36 | 50 | 50 | 41 | 41 | 58 | 58 | 56 | 53 | 71 | 71 | 59 | 51 |
| R-squared | 0.314 | 0.412 | 0.741 | 0.930 | 0.078 | 0.170 | 0.613 | 0.829 | 0.106 | 0.123 | 0.544 | 0.585 | 0.071 | 0.073 | 0.444 | 0.586 |

Table 4. Inequality regressions. Panel estimates 1993-2011

| | Between | Fixed Effects | Random Effects |
|-----------------------|---------------------------|---------------------------|---------------------------|
| ln GDPpc | 0.0954 (0.0632) | -0.211*** (0.0548) | -0.0513 (0.0409) |
| ln GDPpc ² | -0.0164 (0.0122) | 0.0264*** (0.00897) | 0.00829 (0.00715) |
| % Agricult | 0.318*** (0.0869) | 0.305*** (0.0625) | 0.368*** (0.0510) |
| % Construc | 0.273 (0.288) | -0.00688 (0.108) | 0.0540 (0.0930) |
| % Trad Serv | 0.308*** (0.0996) | 0.367*** (0.102) | 0.278*** (0.0651) |
| % Finan Serv | 0.209 (0.170) | -0.141 (0.0866) | -0.0967 (0.0799) |
| Empl S&T | -1.12e-06 (5.99e-06) | 9.84e-06** (4.38e-06) | 4.74e-06 (3.40e-06) |
| Density | 1.67e-05*** (4.98e-06) | 8.44e-05*** (1.48e-05) | 2.41e-05*** (3.88e-06) |
| Fam_1 | 0.0240 (0.0162) | | 0.00348 (0.0118) |
| Fam_2 | -0.101*** (0.0258) | | -0.0588** (0.0244) |
| Christ. | 0.0145 (0.0321) | | -0.0113 (0.0276) |
| Unemp | 4.51e-05** (2.09e-05) | -0.0443* (0.0261) | 0.0459** (0.0212) |
| Constant | -0.0124 (0.0923) | 0.549*** (0.0810) | 0.307*** (0.0682) |
| Observations | 699 | 699 | 699 |
| Regions | 67 | 67 | 67 |
| R-squared | 0.606 | 0.222 | |

Regarding the fixed effects estimates, we observe a significant and positive parameter for the quadratic form of GDP per capita. We interpret that result as evidence that regions where inequality has increased more are the ones with higher GDP per capita growth rates. In addition, the proportion of highly educated employees working in science and technology also report a significant and positive parameter. In our view, these results evidence that the current process of economic growth is linked to the introduction of new technologies, which in turn results in increasing inequalities. This is a conflicting result, as would imply a trade-off between equity and efficiency.

Finally, we have also performed cross section and panel estimates of the rest of inequality measures. The results can be found in Appendix 7. As can be expected, the p9010 measurement of inequality estimates report very similar results to the Gini index estimates. The inequality associated to the left side of the distribution (lower income levels, p5010) reports a negative parameter associated with the share in construction in 2011. Thus, in those regions where the Great Recession has been associated with a housing bubble, the decrease in the employment in the construction sector has finally resulted in a significant increase in inequality and this has finally impacted in lower incomes. A similar and related result is found for unemployment, being the result particularly strong in 2011 and on average levels rather than on the cyclical component. In these estimates we also see a strong significant parameter associated with tradable sectors, what we interpret as a strong impact of globalisation in the inequality associated to the lower part of the distribution at the regional level.

On the right side of the distribution (higher income levels, p9050) we find different results in the share of employment in the construction sector, as it is countercyclical. The variables associated with globalisation and technological intensity do not seem to be strongly associated with inequality. On the contrary, we observe a strong impact of the institutional variable associated with the familiar structure. Although here the interpretation can only be made in terms of significance, this result is linked with the fact that institutional failures are usually associated with rents appropriated by elites, in line with the Acemoglu and Robinson (2008) theories.

4. Concluding remarks and policy issues

Income inequality may be the result of market forces but also an outcome of institutional failures. Besides, its effects can be harmful for economic growth and development. International organisations such as the European Union or the OECD are concerned with inequality issues and try to design policies capable of being at the same time efficient and inclusive.

In this work we have made a description of the evolution of income inequality. By using the micro data available at the European Community Household Panel (ECHP) and the European Union Survey on Income and Living Conditions (EU-SILC), we have computed several inequality measures for European countries and NUTS-1 regions in Europe since 1993 until 2011.

The evolution of inequality picture is far from homogeneous, both across countries and over time. In comparison with inequality levels all over the world, the European inequality measured by the Gini index is reasonably low and around 0.3. We have found a group of countries with low levels of

inequality, such as Norway, Iceland, Slovenia, Sweden and Netherlands (all of the below 0.25 in 2010). At the other extreme we find Spain, Romania, Portugal, Latvia and Bulgaria (all of them above 0.33 in 2010). In the 1996-2000 period the Gini index decreased in 9 out of the 15 considered countries in the SILC survey. On the contrary, in the 2007-2011 period the Gini index increased in nearly half of the sample. It is worth mentioning that the evolution of inequality in the EU countries more affected by the sovereign debt crisis has been diverse, with a substantial increase in Spain, no significant changes in Greece and decreases in Portugal and Ireland.

The regional analysis of inequality is far from extended in the empirical literature, usually due to data availability issues. Of course, inequality trends observed at the regional level are similar than those observed at the country level, although now the trends are even magnified: if in most regions, inequality has decreased between 1996 and 2007, in the 2007-2010 period inequality has increased in 29 out of the 39 regions available both in ECHP and EU-SILC.

We have developed an empirical exercise in order to find out the factors that mainly influence income inequality. As predicted by the Kuznets theoretical approach, inequality decreases with development, although in our sample we do not observe the positive relationship predicted by the model at initial stages of economic development (however, as our sample only contains European regions this is not a surprise). In line with this approach, introducing technological innovations will follow the inverted-U pattern, initially rising inequality. According to our estimates, we find that a sectoral composition in high value added services or a higher proportion of high educated people and/or employed in science and technology have an increasing impact in inequality.

In addition we find that regions specialized in sectors potentially opened to global competition (commerce, communication, tourism...) experience higher inequality levels and increases, in line with the predictions of the Heckscher-Ohlin and Stolper-Samuelson theorems.

Regions with higher density have higher inequality levels, and both variables evolve positively over time. As shown in Castells-Quintana and Royuela (2014a) inequality can be associated to agglomeration economies and the spatial concentration of resources, what in particular circumstances can be a positive factor for economic development.

Finally, institutional factors do play a role in explaining inequality, particularly at right side of the distribution (higher income levels, p9050). This result is linked with the fact that institutional failures are usually associated with rents appropriated by elites.

The policy implications of our results are somehow conflicting. On the one side we understand and support the policy initiatives supporting inclusive economic growth. But at the same time most of

the factors explaining inequality (globalisation, technological change, spatial agglomeration of activity) cannot be separated from economic development. One of the more important results of our analysis is that inequality is negatively related with economic development, what would imply an automatic self-correcting process of inequality. These results would imply that no correction mechanism would be needed from a policy perspective, although it is worth mentioning that our view is only focused on short-run developments. An analysis of long-run trends could provide different results and different conclusions.

Still, there is some room for policies compatible with the joint objective of promoting a strong and inclusive economic growth. Koske et al (2012) report a list of policies in this regard: facilitating the accumulation of human capital, making educational achievement less dependent on personal and social circumstances, reducing labour market dualism and promoting the labour market integration of immigrants and women. Other policies that are capable of reducing inequality at the same time than promoting economic growth are the ones associated with institutional issues. Many of them are associated with labour market regulations and the structure and size of fiscal and social security systems. All in all, they are policies aiming at reducing the inequality of opportunities while allowing the inequality arising from returns to effort.

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APPENDIX 1. List of considered countries in ECHP and EU-SILC

| | Country | ECHP | EU-SILC |
|----|----------------|------|---------|
| AT | Austria | X | X |
| BE | Belgium | X | X |
| DE | Germany | X | X |
| DK | Denmark | X | X |
| ES | Spain | X | X |
| FI | Finland | X | X |
| FR | France | X | X |
| GR | Greece | X | X |
| IE | Ireland | X | X |
| IT | Italy | X | X |
| LU | Luxemburg | X | X |
| NL | Netherlands | X | X |
| PT | Portugal | X | X |
| SE | Sweden | X | X |
| UK | United Kingdom | X | X |
| BG | Bulgaria | | X |
| CH | Switzerland | | X |
| CY | Cyprus | | X |
| CZ | Czech Republic | | X |
| EE | Estonia | | X |
| HR | Croatia | | X |
| HU | Hungary | | X |
| IS | Iceland | | X |
| LT | Lithuania | | X |
| LV | Latvia | | X |
| MT | Malta | | X |
| NO | Norway | | X |
| PL | Poland | | X |
| RO | Romania | | X |
| SI | Slovenia | | X |
| SK | Slovakia | | X |

APPENDIX 2. List of considered NUTS 1 regions in ECHP and SILC

| NUTS 1 REGION | | ECHP | EU-SILC |
|---------------|---|--------|---------|
| 1 | AT1 OSTÖSTERREICH | 1 AT1 | 1 AT1 |
| 2 | AT2 SÜDÖSTERREICH | 2 AT2 | 2 AT2 |
| 3 | AT3 WESTÖSTERREICH | 3 AT3 | 3 AT3 |
| 4 | BE1 RÉGION DE BRUXELLES-CAPITALE/BRUSSELS HOOFDSTEDELIJK GEWEST | 4 BE1 | 4 BE1 |
| 5 | BE2 VLAAMS GEWEST | 5 BE2 | 5 BE2 |
| 6 | BE3 RÉGION WALLONNE | 6 BE3 | 6 BE3 |
| 7 | BG3 SEVERNA I YUGOIZTOCHNA BULGARIA | | 7 BG3 |
| 8 | BG4 YUGOZAPADNA I YUZHNA TSENTRALNA BULGARIA | | 8 BG4 |
| 9 | CH SWITZERLAND | | 9 CH0 |
| 10 | CY0 KYΠPOΣ (KÝPROS) | | 10 CY0 |
| 11 | CZ0 ČESKÁ REPUBLIKA | | 11 CZ0 |
| 12 | DE1 BADEN-WÜRTTEMBERG | 7 DE1 | 12 DE1 |
| 13 | DE2 BAYERN | 8 DE2 | 13 DE2 |
| 14 | DE3 BERLIN | 9 DE3 | 14 DEA |
| 15 | DE4 BRANDENBURG | 10 DE4 | 15 DECE |
| 16 | DE5 BREMEN | 11 DE5 | 16 DENE |
| 17 | DE6 HAMBURG | 12 DE6 | 17 DENW |
| 18 | DE7 HESSEN | 13 DE7 | |
| 19 | DE8 MECKLENBURG-VORPOMMERN | 14 DE8 | |
| 20 | DE9 NIEDERSACHSEN | 15 DE9 | |
| 21 | DEA NORDRHEIN-WESTFALEN | 16 DEA | |
| 22 | DEB RHEINLAND-PFALZ | 17 DEX | |
| 23 | DEC SAARLAND | | |
| 24 | DED SACHSEN | 18 DED | |
| 25 | DEE SACHSEN-ANHALT | 19 DEE | |
| 26 | DEF SCHLESWIG-HOLSTEIN | 20 DEF | |
| 27 | DEG THÜRINGEN | 21 DEG | |
| 28 | DK0 DANMARK | 22 DK0 | 18 DK0 |
| 29 | EE0 EESTI | | 19 EE0 |
| 30 | EL1 VOREIA ELLADA | 23 GR1 | 20 EL1 |
| 31 | EL2 KENTRIKI ELLADA | 24 GR2 | 21 EL2 |
| 32 | EL3 ATTIKI | 25 GR3 | 22 EL3 |
| 33 | EL4 NISIA AIGAIYOU, KRITI | 26 GR4 | 23 EL4 |
| 34 | ES1 NOROESTE | 27 ES1 | 24 ES1 |
| 35 | ES2 NORESTE | 28 ES2 | 25 ES2 |
| 36 | ES3 COMUNIDAD DE MADRID | 29 ES3 | 26 ES3 |
| 37 | ES4 CENTRO (ES) | 30 ES4 | 27 ES4 |
| 38 | ES5 ESTE | 31 ES5 | 28 ES5 |
| 39 | ES6 SUR | 32 ES6 | 29 ES6 |
| 40 | ES7 CANARIAS | 33 ES7 | 30 ES7 |
| 41 | FI FINLAND | 34 FI | 31 FI |
| 42 | FR1 ÎLE DE FRANCE | 35 FR1 | 32 FR1 |
| 43 | FR2 BASSIN PARISIEN | 36 FR2 | 33 FR2 |
| 44 | FR3 NORD - PAS-DE-CALAIS | 37 FR3 | 34 FR3 |
| 45 | FR4 EST | 38 FR4 | 35 FR4 |
| 46 | FR5 OUEST | 39 FR5 | 36 FR5 |
| NUTS 1 REGION | | ECHP | EU-SILC |

| | | | | | | |
|----|-----|----------------------------|----|---------|----|---------|
| 47 | FR6 | SUD-OUEST | 40 | FR6 | 37 | FR6 |
| 48 | FR7 | CENTRE-EST | 41 | FR7 | 38 | FR7 |
| 49 | FR8 | MÉDITERRANÉE | 42 | FR8 | 39 | FR8 |
| 50 | HR0 | CROACIA | | | 40 | HR0 |
| 51 | HU1 | KÖZÉP-MAGYARORSZÁG | | | 41 | HU1 |
| 52 | HU2 | DUNÁNTÚL | | | 42 | HU2 |
| 53 | HU3 | ALFÖLD ÉS ÉSZAK | | | 43 | HU3 |
| 54 | IE0 | IRELAND | 43 | IE0 | 44 | IE0 |
| 55 | IS0 | ICELAND | | | 45 | IS0 |
| 56 | ITC | NORD-OVEST | 44 | ITC | 46 | ITC |
| 57 | ITF | SUD | 45 | ITF | 47 | ITF |
| 58 | ITG | ISOLE | 46 | ITG | 48 | ITG |
| 59 | ITH | NORD-EST | 47 | ITH_ITD | 49 | ITH_ITD |
| 60 | ITI | CENTRO (IT) | 48 | ITI_ITE | 50 | ITI_ITE |
| 61 | LT0 | LIETUVA | | | 51 | LT0 |
| 62 | LU0 | LUXEMBOURG | 49 | LU0 | 52 | LU0 |
| 63 | LV0 | LATVIJA | | | 53 | LV0 |
| 64 | MT0 | MALTA | | | 54 | MT0 |
| 65 | NL | NETHERLANDS | 50 | NL | 55 | NL |
| 66 | NO0 | NORWAY | | | 56 | NO0 |
| 67 | PL1 | REGION CENTRALNY | | | 57 | PL1 |
| 68 | PL2 | REGION POLUDNIOWY | | | 58 | PL2 |
| 69 | PL3 | REGION WSCHODNI | | | 59 | PL3 |
| 70 | PL4 | REGION PÓLNOCNO-ZACHODNI | | | 60 | PL4 |
| 71 | PL5 | REGION POLUDNIOWO-ZACHODNI | | | 61 | PL5 |
| 72 | PL6 | REGION PÓLNOCNY | | | 62 | PL6 |
| 73 | PT | PORTUGAL | 51 | PT | 63 | PT |
| 74 | RO1 | MACROREGIUNEA UNU | | | 64 | RO1 |
| 75 | RO2 | MACROREGIUNEA DOI | | | 65 | RO2 |
| 76 | RO3 | MACROREGIUNEA TREI | | | 66 | RO3 |
| 77 | RO4 | MACROREGIUNEA PATRU | | | 67 | RO4 |
| 78 | SE1 | ÖSTRA SVERIGE | 52 | SE1 | 68 | SE1 |
| 79 | SE2 | SÖDRA SVERIGE | 53 | SE2 | 69 | SE2 |
| 80 | SE3 | NORRA SVERIGE | 54 | SE3 | 70 | SE3 |
| 81 | SI0 | SLOVENIJA | | | 71 | SI0 |
| 82 | SK0 | SLOVENSKO | | | 72 | SK0 |
| 83 | UKC | NORTH EAST (ENGLAND) | 55 | UK1 | 73 | UKC |
| 84 | UKD | NORTH WEST (ENGLAND) | 56 | UK8 | 74 | UKD |
| 85 | UKE | YORKSHIRE AND THE HUMBER | 57 | UK2 | 75 | UKE |
| 86 | UKF | EAST MIDLANDS (ENGLAND) | 58 | UK3 | 76 | UKF |
| 87 | UKG | WEST MIDLANDS (ENGLAND) | 59 | UK7 | 77 | UKG |
| 88 | UKH | EAST OF ENGLAND | 60 | UK4 | 78 | UKH |
| 89 | UKI | LONDON | | | 79 | UKI |
| 90 | UKJ | SOUTH EAST (ENGLAND) | 61 | UK5 | 80 | UKJ |
| 91 | UKK | SOUTH WEST (ENGLAND) | 62 | UK6 | 81 | UKK |
| 92 | UKL | WALES | 63 | UK9 | 82 | UKL |
| 93 | UKM | SCOTLAND | 64 | UKA | 83 | UKM |
| 94 | UKN | NORTHERN IRELAND | 65 | UKB | 84 | UKN |

APPENDIX 3. Income inequality measures at the country level

| Gini index | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT | | 0.2919 | 0.2777 | 0.2725 | 0.2643 | 0.2856 | 0.2629 | 0.2594 | 0.2576 | 0.2605 | 0.2533 | 0.2610 | 0.2611 | 0.2560 | 0.2607 | 0.2627 | 0.2759 |
| BE | 0.3136 | 0.3100 | 0.3083 | 0.2897 | 0.2904 | 0.3105 | 0.3158 | 0.3021 | 0.2563 | 0.2785 | 0.2724 | 0.2601 | 0.2715 | 0.2564 | 0.2585 | 0.2609 | |
| DE | 0.3159 | 0.3167 | 0.2945 | 0.2796 | 0.2778 | 0.2761 | 0.2790 | 0.2789 | | 0.2582 | 0.2604 | 0.2946 | 0.2976 | 0.2904 | 0.2893 | 0.2858 | 0.2816 |
| DK | 0.2552 | 0.2459 | 0.2422 | 0.2311 | 0.2453 | 0.2444 | 0.2457 | 0.2470 | 0.2324 | 0.2273 | 0.2299 | 0.2405 | 0.2439 | 0.2333 | 0.2464 | 0.2596 | 0.2610 |
| ES | 0.3495 | 0.3440 | 0.3413 | 0.3530 | 0.3440 | 0.3384 | 0.3361 | 0.3377 | 0.3030 | 0.3152 | 0.3082 | 0.3089 | 0.3095 | 0.3137 | 0.3275 | 0.3318 | 0.3362 |
| FI | | | 0.2496 | 0.2478 | 0.2590 | 0.2719 | 0.2655 | 0.2703 | 0.2522 | 0.2570 | 0.2579 | 0.2606 | 0.2621 | 0.2580 | 0.2527 | 0.2577 | 0.2584 |
| FR | 0.3534 | 0.3032 | 0.2947 | 0.2958 | 0.2876 | 0.3029 | 0.2892 | 0.2798 | 0.2814 | 0.2764 | 0.2718 | 0.2641 | 0.2956 | 0.2984 | 0.2968 | 0.3077 | 0.3040 |
| GR | 0.3813 | 0.3648 | 0.3572 | 0.3655 | 0.3676 | 0.3618 | 0.3465 | 0.3446 | 0.3162 | 0.3257 | 0.3367 | 0.3393 | 0.3259 | 0.3234 | 0.3234 | 0.3284 | 0.3309 |
| IE | 0.3417 | 0.3568 | 0.3528 | 0.3445 | 0.3532 | 0.3519 | 0.3356 | 0.3291 | 0.3157 | 0.3184 | 0.3192 | 0.3132 | 0.2993 | 0.2866 | 0.3004 | 0.2961 | |
| IT | 0.3336 | 0.3312 | 0.3233 | 0.3092 | 0.3098 | 0.3031 | 0.2945 | 0.2990 | 0.3276 | 0.3232 | 0.3164 | 0.3166 | 0.3054 | 0.3107 | 0.3068 | 0.3141 | 0.3143 |
| LU | | 0.2701 | 0.2577 | 0.2610 | 0.2642 | 0.2786 | 0.2676 | 0.2691 | 0.2621 | 0.2632 | 0.2752 | 0.2734 | 0.2743 | 0.2909 | 0.2758 | 0.2693 | 0.2769 |
| NL | 0.2854 | 0.3017 | 0.3111 | 0.2785 | 0.2721 | 0.2787 | 0.2617 | 0.2713 | | 0.2567 | 0.2555 | 0.2683 | 0.2688 | 0.2656 | 0.2500 | 0.2493 | 0.2496 |
| PT | 0.4034 | 0.3922 | 0.3812 | 0.3821 | 0.3845 | 0.3734 | 0.3671 | 0.3800 | 0.3773 | 0.3809 | 0.3767 | 0.3692 | 0.3577 | 0.3531 | 0.3357 | 0.3424 | 0.3454 |
| SE | | | | 0.2357 | 0.2558 | 0.2471 | 0.2569 | 0.2568 | 0.2243 | 0.2272 | 0.2308 | 0.2320 | 0.2346 | 0.2434 | 0.2381 | 0.2403 | 0.2442 |
| UK | 0.3417 | 0.3600 | 0.3468 | 0.3312 | 0.3500 | 0.3446 | 0.3528 | 0.3467 | | 0.3410 | 0.3201 | 0.3259 | 0.3346 | 0.3207 | 0.3251 | 0.3261 | 0.3205 |
| BG | | | | | | | | | | | | 0.3527 | 0.3593 | 0.3334 | 0.3319 | 0.3497 | 0.3344 |
| CH | | | | | | | | | | | | | 0.3114 | 0.3003 | 0.2948 | 0.2952 | 0.2863 |
| CY | | | | | | | | | | 0.2871 | 0.2876 | 0.2977 | 0.2891 | 0.2935 | 0.3005 | 0.2916 | 0.3097 |
| CZ | | | | | | | | | | 0.2598 | 0.2530 | 0.2523 | 0.2472 | 0.2504 | 0.2488 | 0.2523 | 0.2488 |
| EE | | | | | | | | | 0.3674 | 0.3348 | 0.3283 | 0.3324 | 0.3079 | 0.3123 | 0.3107 | 0.3171 | 0.3212 |
| HR | | | | | | | | | | | | | | | | 0.3070 | 0.3033 |
| HU | | | | | | | | | | 0.2741 | 0.3272 | 0.2552 | 0.2510 | 0.2461 | 0.2402 | 0.2678 | 0.2689 |
| IS | | | | | | | | | 0.2398 | 0.2499 | 0.2587 | 0.2801 | 0.2716 | 0.2949 | 0.2566 | 0.2335 | 0.2375 |
| LT | | | | | | | | | | 0.3593 | 0.3473 | 0.3363 | 0.3362 | 0.3520 | 0.3650 | 0.3254 | 0.3168 |
| LV | | | | | | | | | | 0.3553 | 0.3860 | 0.3509 | 0.3729 | 0.3721 | 0.3558 | 0.3473 | 0.3543 |
| MT | | | | | | | | | | | | | 0.2772 | 0.2720 | 0.2819 | 0.2730 | 0.2710 |
| NO | | | | | | | | | 0.2510 | 0.2810 | 0.2821 | 0.2349 | 0.2424 | 0.2397 | 0.2336 | 0.2277 | 0.2234 |
| PL | | | | | | | | | | 0.3539 | 0.3319 | 0.3209 | 0.3187 | 0.3139 | 0.3108 | 0.3100 | 0.3091 |
| RO | | | | | | | | | | | | 0.3793 | 0.3601 | 0.3483 | 0.3331 | 0.3337 | 0.3322 |
| SI | | | | | | | | | | 0.2374 | 0.2373 | 0.2329 | 0.2342 | 0.2273 | 0.2380 | 0.2383 | 0.2378 |
| SK | | | | | | | | | | 0.2588 | 0.2801 | 0.2440 | 0.2355 | 0.2475 | 0.2584 | 0.2567 | 0.2527 |

| P9010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT | | 3.5838 | 3.4382 | 3.4094 | 3.2570 | 3.3090 | 3.1982 | 3.1260 | 3.1043 | 3.0787 | 3.0443 | 3.0902 | 3.1231 | 3.0657 | 3.1818 | 3.0947 | 3.3859 |
| BE | 3.7833 | 3.6245 | 3.4716 | 3.4376 | 3.4279 | 3.2224 | 3.3075 | 3.4198 | 3.2622 | 3.1131 | 3.2602 | 3.2133 | 3.1659 | 3.1322 | 3.1648 | 3.1886 | |
| DE | 4.3661 | 4.2995 | 3.7184 | 3.5133 | 3.4362 | 3.3517 | 3.2997 | 3.2464 | | 3.0475 | 3.0851 | 3.6499 | 3.6395 | 3.6128 | 3.5943 | 3.6196 | 3.6045 |
| DK | 2.8846 | 2.8358 | 2.7774 | 2.8644 | 3.0892 | 2.9965 | 2.9459 | 3.1071 | 2.6849 | 2.7115 | 2.6811 | 2.7556 | 2.7724 | 2.8207 | 2.9410 | 2.9980 | 3.0323 |
| ES | 4.8180 | 4.5706 | 4.5728 | 4.8580 | 4.5696 | 4.6169 | 4.4961 | 4.4989 | 4.1702 | 4.4180 | 4.3504 | 4.2581 | 4.4003 | 4.7118 | 5.2248 | 5.3859 | 5.4301 |
| FI | | | 2.8006 | 2.8978 | 3.0625 | 3.2224 | 3.1757 | 3.2463 | 2.8517 | 2.9069 | 2.9330 | 3.0193 | 3.0927 | 3.0620 | 2.9789 | 3.0524 | 3.0771 |
| FR | 4.0797 | 3.8430 | 3.7341 | 3.7015 | 3.6109 | 3.5905 | 3.6157 | 3.5701 | 3.3280 | 3.2516 | 3.2477 | 3.2196 | 3.3685 | 3.3755 | 3.4463 | 3.5239 | 3.4606 |
| GR | 6.9565 | 6.3339 | 5.6855 | 5.9125 | 6.0610 | 5.6433 | 5.3777 | 5.2181 | 4.4444 | 4.5385 | 4.6345 | 4.6477 | 4.4591 | 4.2716 | 4.2424 | 4.5457 | 4.9086 |
| IE | 4.2039 | 4.3347 | 4.2662 | 4.2743 | 4.2658 | 4.5000 | 4.5047 | 4.3985 | 4.0006 | 3.9440 | 3.8432 | 3.8547 | 3.5977 | 3.4510 | 3.5672 | 3.7134 | |
| IT | 4.5264 | 4.1731 | 4.3258 | 4.1460 | 4.0085 | 3.8885 | 3.7311 | 3.8725 | 4.2821 | 4.1555 | 4.2517 | 4.1774 | 3.9902 | 4.0700 | 4.0687 | 4.2145 | 4.1896 |
| LU | | 3.3091 | 3.0822 | 3.1132 | 3.1498 | 3.3266 | 3.2265 | 3.3039 | 3.2782 | 3.3142 | 3.4324 | 3.4384 | 3.3229 | 3.5324 | 3.3831 | 3.2731 | 3.4212 |
| NL | 3.3840 | 3.4335 | 3.5866 | 3.2443 | 3.1201 | 3.1859 | 3.1452 | 3.1857 | | 2.9234 | 2.9135 | 2.9504 | 3.0196 | 3.0459 | 2.9278 | 2.9763 | 2.8774 |
| PT | 6.8897 | 6.2960 | 5.6713 | 5.7382 | 5.7108 | 5.4588 | 5.4067 | 5.4127 | 5.3909 | 5.4792 | 5.1383 | 5.2335 | 4.8529 | 4.6468 | 4.5410 | 4.5713 | 4.6109 |
| SE | | | | 2.7563 | 3.0256 | 2.8146 | 3.1091 | 2.9895 | 2.7618 | 2.6459 | 2.8285 | 2.7460 | 2.8241 | 2.9514 | 2.9166 | 2.9747 | 3.0110 |
| UK | 4.9293 | 4.8623 | 4.7332 | 4.3979 | 4.7006 | 4.5446 | 4.5241 | 4.5463 | | 4.4507 | 4.2950 | 4.2438 | 4.2592 | 4.0898 | 4.0776 | 3.9527 | 3.8711 |
| BG | | | | | | | | | | | | 5.4588 | 4.9604 | 4.8847 | 4.7896 | 5.1341 | 4.8556 |
| CH | | | | | | | | | | | | | 3.8561 | 3.5621 | 3.5065 | 3.4982 | 3.6233 |
| CY | | | | | | | | | | 3.6231 | 3.5224 | 3.5287 | 3.4849 | 3.5767 | 3.6614 | 3.6428 | 3.7316 |
| CZ | | | | | | | | | | 2.9966 | 2.8481 | 2.8881 | 2.7802 | 2.7242 | 2.7922 | 2.9060 | 2.8696 |
| EE | | | | | | | | | 5.3964 | 4.5533 | 4.3476 | 4.3018 | 4.0958 | 4.0659 | 4.0760 | 4.3374 | 4.3874 |
| HR | | | | | | | | | | | | | | | | 4.5571 | 4.5594 |
| HU | | | | | | | | | | 3.1978 | 3.7504 | 3.0753 | 2.9847 | 3.0095 | 2.9533 | 3.3664 | 3.2992 |
| IS | | | | | | | | | 2.6969 | 2.7224 | 2.8003 | 2.9866 | 2.9604 | 3.0325 | 2.8493 | 2.5940 | 2.6292 |
| LT | | | | | | | | | | 5.3950 | 5.2782 | 4.7535 | 4.5433 | 4.8127 | 5.7441 | 4.8165 | 4.4261 |
| LV | | | | | | | | | | 4.8750 | 5.4027 | 5.0974 | 5.7487 | 5.6913 | 5.3134 | 5.2389 | 5.0708 |
| MT | | | | | | | | | | | | | 3.4501 | 3.4295 | 3.4599 | 3.3812 | 3.2858 |
| NO | | | | | | | | | 2.7065 | 2.7156 | 2.7965 | 2.8515 | 2.8015 | 2.8139 | 2.7285 | 2.6818 | 2.6293 |
| PL | | | | | | | | | | 5.1966 | 4.5819 | 4.2589 | 4.0482 | 3.9427 | 3.9742 | 3.9349 | 4.0102 |
| RO | | | | | | | | | | | | 6.3010 | 5.8487 | 5.4405 | 5.0459 | 5.4007 | 5.4479 |
| SI | | | | | | | | | | 2.9760 | 2.9223 | 2.8901 | 2.9173 | 2.7962 | 2.9788 | 3.0556 | 3.0147 |
| SK | | | | | | | | | | 3.1199 | 2.9816 | 2.8171 | 2.7955 | 3.0600 | 3.1219 | 3.1374 | 3.1844 |

| P5010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT | | 1.9010 | 1.9168 | 1.9212 | 1.8590 | 1.8674 | 1.8345 | 1.8477 | 1.8005 | 1.7601 | 1.7959 | 1.7745 | 1.7845 | 1.7688 | 1.7918 | 1.7917 | 1.8750 |
| BE | 2.0221 | 2.0000 | 1.9378 | 1.8982 | 1.9061 | 1.8297 | 1.8426 | 1.8264 | 1.9106 | 1.8539 | 1.8853 | 1.8926 | 1.8660 | 1.8633 | 1.8607 | 1.8890 | |
| DE | 2.2299 | 2.2439 | 1.9868 | 1.9031 | 1.8681 | 1.7818 | 1.8008 | 1.7815 | | 1.7935 | 1.8088 | 1.9775 | 1.9471 | 1.9548 | 1.9448 | 1.9812 | 1.9767 |
| DK | 1.7375 | 1.7361 | 1.7248 | 1.7899 | 1.8944 | 1.8839 | 1.8547 | 1.9225 | 1.7127 | 1.7315 | 1.7229 | 1.7415 | 1.7572 | 1.8009 | 1.8377 | 1.8081 | 1.8231 |
| ES | 2.1388 | 2.0581 | 2.0421 | 2.1432 | 2.0433 | 2.1058 | 2.0576 | 2.1180 | 2.2040 | 2.2223 | 2.2429 | 2.1828 | 2.2313 | 2.3568 | 2.5548 | 2.5700 | 2.5605 |
| FI | | | 1.6545 | 1.6642 | 1.7743 | 1.8290 | 1.8315 | 1.8821 | 1.6998 | 1.7279 | 1.7597 | 1.7749 | 1.8145 | 1.8141 | 1.7832 | 1.7912 | 1.8004 |
| FR | 2.0793 | 2.0203 | 1.9813 | 1.9620 | 1.9349 | 1.9375 | 1.9296 | 1.9388 | 1.8205 | 1.7746 | 1.8046 | 1.8031 | 1.7470 | 1.7815 | 1.8166 | 1.8284 | 1.8246 |
| GR | 3.2653 | 2.8441 | 2.6540 | 2.6516 | 2.7222 | 2.5931 | 2.4855 | 2.4507 | 2.2110 | 2.1732 | 2.2655 | 2.2634 | 2.2227 | 2.1772 | 2.1751 | 2.3068 | 2.5859 |
| IE | 1.8641 | 1.9293 | 1.9576 | 1.9994 | 2.0466 | 2.1317 | 2.1888 | 2.2870 | 2.0978 | 2.0776 | 1.9536 | 1.9462 | 1.8947 | 1.8582 | 1.8311 | 1.8694 | |
| IT | 2.2981 | 2.0929 | 2.2324 | 2.1652 | 2.1197 | 2.0802 | 2.0514 | 2.1309 | 2.1737 | 2.1433 | 2.1780 | 2.1415 | 2.1150 | 2.0975 | 2.1143 | 2.2269 | 2.2018 |
| LU | | 1.8094 | 1.7351 | 1.7201 | 1.7532 | 1.7806 | 1.7320 | 1.7538 | 1.7965 | 1.8492 | 1.8699 | 1.8356 | 1.8152 | 1.9047 | 1.8750 | 1.7801 | 1.8581 |
| NL | 1.7687 | 1.8080 | 1.8657 | 1.7667 | 1.7285 | 1.7774 | 1.7296 | 1.7460 | | 1.7052 | 1.6622 | 1.6812 | 1.6936 | 1.7256 | 1.6781 | 1.7123 | 1.6712 |
| PT | 2.7557 | 2.5422 | 2.3793 | 2.3293 | 2.3653 | 2.2677 | 2.3043 | 2.2599 | 2.2306 | 2.2210 | 2.1082 | 2.1326 | 2.1116 | 2.0927 | 2.0769 | 2.0827 | 2.1161 |
| SE | | | | 1.6845 | 1.7729 | 1.6973 | 1.8329 | 1.7886 | 1.7256 | 1.6451 | 1.7918 | 1.7074 | 1.7693 | 1.8288 | 1.8150 | 1.8402 | 1.8542 |
| UK | 2.2767 | 2.1861 | 2.1429 | 2.0769 | 2.1822 | 2.1416 | 2.1463 | 2.1302 | | 2.1272 | 2.1379 | 2.1178 | 2.0885 | 2.0245 | 2.0082 | 1.9647 | 1.9588 |
| BG | | | | | | | | | | | | 2.7031 | 2.3265 | 2.3694 | 2.4070 | 2.4864 | 2.5029 |
| CH | | | | | | | | | | | | | 1.9927 | 1.9111 | 1.9190 | 1.9081 | 1.9798 |
| CY | | | | | | | | | | 1.9397 | 1.9220 | 1.9485 | 1.8916 | 1.9117 | 1.9152 | 1.8829 | 1.8790 |
| CZ | | | | | | | | | | 1.6961 | 1.6595 | 1.6508 | 1.6311 | 1.6016 | 1.6184 | 1.6538 | 1.6503 |
| EE | | | | | | | | | 2.2711 | 2.0987 | 2.0708 | 2.0717 | 2.0712 | 2.0054 | 1.9571 | 2.1038 | 2.0864 |
| HR | | | | | | | | | | | | | | | | 2.3458 | 2.3930 |
| HU | | | | | | | | | | 1.8308 | 2.0026 | 1.8084 | 1.7578 | 1.7845 | 1.7732 | 1.8574 | 1.8890 |
| IS | | | | | | | | | 1.6688 | 1.6529 | 1.6517 | 1.6737 | 1.6670 | 1.6712 | 1.6471 | 1.6207 | 1.5835 |
| LT | | | | | | | | | | 2.3598 | 2.3502 | 2.2250 | 2.2445 | 2.1991 | 2.4803 | 2.2961 | 2.1113 |
| LV | | | | | | | | | | 2.2348 | 2.3520 | 2.2742 | 2.5740 | 2.5751 | 2.3724 | 2.3634 | 2.2788 |
| MT | | | | | | | | | | | | | 1.9139 | 1.8638 | 1.8617 | 1.8893 | 1.8709 |
| NO | | | | | | | | | 1.7140 | 1.7405 | 1.7584 | 1.8114 | 1.7505 | 1.7601 | 1.7297 | 1.6991 | 1.6749 |
| PL | | | | | | | | | | 2.4266 | 2.1796 | 2.0879 | 2.0132 | 2.0330 | 2.0409 | 2.0342 | 2.0290 |
| RO | | | | | | | | | | | | 2.8721 | 2.7054 | 2.6313 | 2.4597 | 2.6354 | 2.6319 |
| SI | | | | | | | | | | 1.7897 | 1.7581 | 1.7471 | 1.7806 | 1.7355 | 1.7952 | 1.8662 | 1.8365 |
| SK | | | | | | | | | | 1.8432 | 1.7495 | 1.6884 | 1.7033 | 1.7420 | 1.7818 | 1.8104 | 1.8351 |

| P9050 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT | | 1.8852 | 1.7937 | 1.7746 | 1.7520 | 1.7719 | 1.7433 | 1.6918 | 1.7242 | 1.7492 | 1.6952 | 1.7414 | 1.7501 | 1.7332 | 1.7758 | 1.7272 | 1.8058 |
| BE | 1.8710 | 1.8123 | 1.7915 | 1.8110 | 1.7984 | 1.7612 | 1.7950 | 1.8724 | 1.7074 | 1.6792 | 1.7293 | 1.6979 | 1.6966 | 1.6810 | 1.7008 | 1.6879 | |
| DE | 1.9579 | 1.9161 | 1.8716 | 1.8461 | 1.8394 | 1.8811 | 1.8323 | 1.8223 | | 1.6992 | 1.7057 | 1.8457 | 1.8692 | 1.8482 | 1.8482 | 1.8269 | 1.8235 |
| DK | 1.6602 | 1.6334 | 1.6103 | 1.6003 | 1.6307 | 1.5906 | 1.5883 | 1.6162 | 1.5676 | 1.5660 | 1.5562 | 1.5823 | 1.5777 | 1.5663 | 1.6003 | 1.6581 | 1.6632 |
| ES | 2.2526 | 2.2207 | 2.2393 | 2.2667 | 2.2364 | 2.1925 | 2.1852 | 2.1241 | 1.8921 | 1.9881 | 1.9396 | 1.9508 | 1.9721 | 1.9992 | 2.0451 | 2.0957 | 2.1207 |
| FI | | | 1.6927 | 1.7413 | 1.7260 | 1.7619 | 1.7339 | 1.7248 | 1.6776 | 1.6823 | 1.6668 | 1.7011 | 1.7045 | 1.6879 | 1.6705 | 1.7041 | 1.7092 |
| FR | 1.9620 | 1.9022 | 1.8847 | 1.8866 | 1.8662 | 1.8532 | 1.8738 | 1.8414 | 1.8280 | 1.8323 | 1.7997 | 1.7856 | 1.9282 | 1.8948 | 1.8971 | 1.9273 | 1.8966 |
| GR | 2.1304 | 2.2270 | 2.1422 | 2.2298 | 2.2265 | 2.1763 | 2.1636 | 2.1292 | 2.0102 | 2.0883 | 2.0457 | 2.0534 | 2.0062 | 1.9620 | 1.9505 | 1.9706 | 1.8982 |
| IE | 2.2552 | 2.2468 | 2.1794 | 2.1377 | 2.0843 | 2.1110 | 2.0581 | 1.9232 | 1.9071 | 1.8983 | 1.9672 | 1.9806 | 1.8988 | 1.8572 | 1.9482 | 1.9864 | |
| IT | 1.9696 | 1.9939 | 1.9377 | 1.9148 | 1.8911 | 1.8693 | 1.8188 | 1.8173 | 1.9699 | 1.9388 | 1.9521 | 1.9507 | 1.8866 | 1.9404 | 1.9243 | 1.8925 | 1.9028 |
| LU | | 1.8288 | 1.7764 | 1.8099 | 1.7966 | 1.8682 | 1.8628 | 1.8838 | 1.8248 | 1.7922 | 1.8356 | 1.8732 | 1.8306 | 1.8546 | 1.8043 | 1.8388 | 1.8412 |
| NL | 1.9133 | 1.8990 | 1.9224 | 1.8364 | 1.8051 | 1.7924 | 1.8184 | 1.8245 | | 1.7144 | 1.7527 | 1.7549 | 1.7829 | 1.7651 | 1.7447 | 1.7382 | 1.7218 |
| PT | 2.5002 | 2.4765 | 2.3836 | 2.4634 | 2.4143 | 2.4072 | 2.3463 | 2.3951 | 2.4168 | 2.4670 | 2.4373 | 2.4540 | 2.2983 | 2.2205 | 2.1865 | 2.1948 | 2.1789 |
| SE | | | | 1.6363 | 1.7065 | 1.6583 | 1.6963 | 1.6715 | 1.6005 | 1.6084 | 1.5785 | 1.6083 | 1.5961 | 1.6138 | 1.6069 | 1.6165 | 1.6239 |
| UK | 2.1651 | 2.2242 | 2.2088 | 2.1175 | 2.1541 | 2.1221 | 2.1079 | 2.1342 | | 2.0922 | 2.0090 | 2.0039 | 2.0394 | 2.0202 | 2.0304 | 2.0119 | 1.9763 |
| BG | | | | | | | | | | | | 2.0194 | 2.1321 | 2.0616 | 1.9899 | 2.0649 | 1.9400 |
| CH | | | | | | | | | | | | | 1.9351 | 1.8638 | 1.8272 | 1.8333 | 1.8301 |
| CY | | | | | | | | | | 1.8679 | 1.8326 | 1.8110 | 1.8423 | 1.8710 | 1.9117 | 1.9347 | 1.9859 |
| CZ | | | | | | | | | | 1.7668 | 1.7163 | 1.7495 | 1.7045 | 1.7009 | 1.7253 | 1.7572 | 1.7388 |
| EE | | | | | | | | | 2.3762 | 2.1696 | 2.0995 | 2.0764 | 1.9775 | 2.0274 | 2.0827 | 2.0617 | 2.1028 |
| HR | | | | | | | | | | | | | | | | 1.9426 | 1.9053 |
| HU | | | | | | | | | | 1.7467 | 1.8727 | 1.7006 | 1.6980 | 1.6865 | 1.6655 | 1.8125 | 1.7465 |
| IS | | | | | | | | | 1.6161 | 1.6471 | 1.6953 | 1.7845 | 1.7758 | 1.8146 | 1.7298 | 1.6005 | 1.6604 |
| LT | | | | | | | | | | 2.2862 | 2.2458 | 2.1364 | 2.0242 | 2.1884 | 2.3159 | 2.0977 | 2.0964 |
| LV | | | | | | | | | | 2.1814 | 2.2971 | 2.2414 | 2.2334 | 2.2101 | 2.2397 | 2.2167 | 2.2252 |
| MT | | | | | | | | | | | | | 1.8026 | 1.8401 | 1.8585 | 1.7897 | 1.7563 |
| NO | | | | | | | | | 1.5791 | 1.5602 | 1.5904 | 1.5742 | 1.6004 | 1.5988 | 1.5774 | 1.5783 | 1.5698 |
| PL | | | | | | | | | | 2.1415 | 2.1022 | 2.0398 | 2.0109 | 1.9394 | 1.9473 | 1.9343 | 1.9765 |
| RO | | | | | | | | | | | | 2.1939 | 2.1619 | 2.0676 | 2.0514 | 2.0493 | 2.0700 |
| SI | | | | | | | | | | 1.6629 | 1.6622 | 1.6543 | 1.6384 | 1.6111 | 1.6593 | 1.6373 | 1.6415 |
| SK | | | | | | | | | | 1.6927 | 1.7043 | 1.6685 | 1.6413 | 1.7566 | 1.7521 | 1.7330 | 1.7353 |

APPENDIX 4. Income inequality measures at the regional level from ECHP

| GINI index | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | | 0.2934 | 0.2797 | 0.2756 | 0.2666 | 0.2974 | 0.2654 | 0.2761 |
| AT2 | | 0.2919 | 0.2564 | 0.2616 | 0.2679 | 0.3032 | 0.2734 | 0.2452 |
| AT3 | | 0.2873 | 0.2825 | 0.2675 | 0.2526 | 0.2538 | 0.2498 | 0.2417 |
| BE1 | 0.3689 | 0.3053 | 0.3342 | 0.2941 | 0.3282 | 0.3255 | 0.3330 | 0.3186 |
| BE2 | 0.2988 | 0.3123 | 0.3144 | 0.2840 | 0.2817 | 0.3147 | 0.3306 | 0.2853 |
| BE3 | 0.3107 | 0.3037 | 0.2850 | 0.2941 | 0.2859 | 0.2935 | 0.2739 | 0.3214 |
| DE1 | 0.3175 | 0.3253 | 0.2915 | 0.2787 | 0.2772 | 0.2746 | 0.2634 | 0.2712 |
| DE2 | 0.3045 | 0.3165 | 0.3028 | 0.2929 | 0.2733 | 0.2672 | 0.2703 | 0.2750 |
| DE3 | 0.2611 | 0.2918 | 0.2870 | 0.2763 | 0.2818 | 0.2719 | 0.3174 | 0.3669 |
| DE4 | 0.3061 | 0.2682 | 0.2216 | 0.2105 | 0.2184 | 0.1926 | 0.2116 | 0.2176 |
| DE5 | 0.2705 | 0.3299 | 0.2565 | 0.2176 | 0.2378 | 0.2019 | 0.1691 | 0.1955 |
| DE6 | 0.2793 | 0.2558 | 0.2623 | 0.2519 | 0.2452 | 0.2412 | 0.2822 | 0.3097 |
| DE7 | 0.3379 | 0.3351 | 0.3283 | 0.2921 | 0.3092 | 0.3050 | 0.2939 | 0.3360 |
| DE8 | 0.2720 | 0.2624 | 0.2588 | 0.2458 | 0.2626 | 0.2925 | 0.2925 | 0.2492 |
| DE9 | 0.3040 | 0.2970 | 0.2788 | 0.2725 | 0.2694 | 0.2641 | 0.2957 | 0.2520 |
| DEA | 0.3301 | 0.3343 | 0.3155 | 0.2972 | 0.2966 | 0.3013 | 0.2944 | 0.2774 |
| DEX | 0.2858 | 0.2318 | 0.2212 | 0.2029 | 0.1992 | 0.2355 | 0.1985 | 0.2001 |
| DED | 0.2513 | 0.2610 | 0.2004 | 0.1962 | 0.2002 | 0.2046 | 0.2020 | 0.1963 |
| DEE | 0.3001 | 0.3322 | 0.2662 | 0.3082 | 0.2978 | 0.2758 | 0.3160 | 0.2907 |
| DEF | 0.2275 | 0.2093 | 0.1952 | 0.2150 | 0.2152 | 0.2101 | 0.2216 | 0.2057 |
| DEG | 0.2906 | 0.3001 | 0.2792 | 0.2377 | 0.2418 | 0.2560 | 0.2351 | 0.2427 |
| DK0 | 0.2551 | 0.2456 | 0.2416 | 0.2304 | 0.2422 | 0.2416 | 0.2446 | 0.2457 |
| EL1 | 0.4028 | 0.3740 | 0.3684 | 0.3833 | 0.3754 | 0.3638 | 0.3443 | 0.3414 |
| EL2 | 0.3979 | 0.3825 | 0.3596 | 0.3642 | 0.3796 | 0.3606 | 0.3504 | 0.3448 |
| EL3 | 0.3271 | 0.3262 | 0.3205 | 0.3307 | 0.3333 | 0.3323 | 0.3139 | 0.3084 |
| EL4 | 0.3685 | 0.3687 | 0.3614 | 0.3501 | 0.3415 | 0.3341 | 0.3351 | 0.3049 |
| ES1 | 0.3247 | 0.3200 | 0.3288 | 0.3466 | 0.3231 | 0.3178 | 0.2946 | 0.3149 |
| ES2 | 0.3187 | 0.3234 | 0.3048 | 0.3225 | 0.3149 | 0.3116 | 0.2990 | 0.3097 |
| ES3 | 0.3278 | 0.3193 | 0.3347 | 0.3408 | 0.3329 | 0.3452 | 0.3294 | 0.3161 |
| ES4 | 0.3391 | 0.3339 | 0.3437 | 0.3296 | 0.3317 | 0.3315 | 0.3361 | 0.3363 |
| ES5 | 0.3362 | 0.3357 | 0.3199 | 0.3258 | 0.3186 | 0.3054 | 0.3259 | 0.3292 |
| ES6 | 0.3554 | 0.3333 | 0.3331 | 0.3501 | 0.3373 | 0.3316 | 0.3153 | 0.2940 |
| ES7 | 0.3812 | 0.3345 | 0.3375 | 0.3794 | 0.3689 | 0.3176 | 0.3419 | 0.3584 |
| FI | | | 0.2496 | 0.2478 | 0.2590 | 0.2719 | 0.2655 | 0.2703 |
| FR1 | 0.3998 | 0.3144 | 0.3056 | 0.3042 | 0.3052 | 0.3330 | 0.3192 | 0.2969 |
| FR2 | 0.3128 | 0.2772 | 0.2831 | 0.2752 | 0.2663 | 0.3297 | 0.2654 | 0.2467 |
| FR3 | 0.3306 | 0.2702 | 0.2690 | 0.2620 | 0.2704 | 0.2607 | 0.2586 | 0.2565 |
| FR4 | 0.3283 | 0.2688 | 0.2625 | 0.2487 | 0.2486 | 0.2457 | 0.2397 | 0.2355 |
| FR5 | 0.2745 | 0.2726 | 0.2697 | 0.2825 | 0.2603 | 0.2609 | 0.2615 | 0.2633 |
| FR6 | 0.4013 | 0.3039 | 0.3000 | 0.3063 | 0.2880 | 0.2749 | 0.2850 | 0.2830 |
| FR7 | 0.3051 | 0.3103 | 0.2723 | 0.2753 | 0.2726 | 0.2755 | 0.2749 | 0.2645 |
| FR8 | 0.3360 | 0.3051 | 0.2944 | 0.3016 | 0.2798 | 0.2715 | 0.2734 | 0.2768 |

| GINI index | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 0.3417 | 0.3568 | 0.3528 | 0.3445 | 0.3532 | 0.3519 | 0.3356 | 0.3291 |
| ITC | 0.3031 | 0.2976 | 0.2936 | 0.2734 | 0.2845 | 0.2712 | 0.2583 | 0.2562 |
| ITF | 0.3374 | 0.3273 | 0.3240 | 0.3153 | 0.3042 | 0.3007 | 0.2980 | 0.3021 |
| ITG | 0.3666 | 0.3763 | 0.3563 | 0.3271 | 0.3260 | 0.3266 | 0.3252 | 0.3267 |
| ITH_ITD | 0.3184 | 0.3189 | 0.3052 | 0.2861 | 0.2852 | 0.2834 | 0.2782 | 0.2882 |
| ITI_ITE | 0.3123 | 0.3072 | 0.2946 | 0.2990 | 0.2935 | 0.2811 | 0.2713 | 0.2863 |
| LU0 | 0.3200 | 0.2718 | 0.2577 | 0.2610 | 0.2642 | 0.2786 | 0.2676 | 0.2648 |
| NL | 0.2854 | 0.3017 | 0.3111 | 0.2785 | 0.2721 | 0.2787 | 0.2617 | 0.2713 |
| PT | 0.4034 | 0.3922 | 0.3812 | 0.3821 | 0.3845 | 0.3734 | 0.3671 | 0.3800 |
| SE1 | | | | 0.2474 | 0.2633 | 0.2587 | 0.2850 | 0.2761 |
| SE2 | | | | 0.2332 | 0.2556 | 0.2430 | 0.2417 | 0.2425 |
| SE3 | | | | 0.2150 | 0.2353 | 0.2236 | 0.2268 | 0.2341 |
| UK1 | 0.3598 | 0.3352 | 0.3020 | 0.3180 | 0.3095 | 0.3219 | 0.3215 | 0.3121 |
| UK8 | 0.3496 | 0.3558 | 0.3364 | 0.3452 | 0.3418 | 0.3355 | 0.3229 | 0.3163 |
| UK2 | 0.3488 | 0.3511 | 0.3445 | 0.3215 | 0.3499 | 0.3094 | 0.3157 | 0.3203 |
| UK3 | 0.3271 | 0.3390 | 0.3149 | 0.3051 | 0.3446 | 0.3341 | 0.3203 | 0.3176 |
| UK7 | 0.3508 | 0.3360 | 0.3178 | 0.3155 | 0.3556 | 0.3451 | 0.3152 | 0.3421 |
| UK4 | 0.3352 | 0.3230 | 0.3375 | 0.3419 | 0.3496 | 0.3162 | 0.3198 | 0.3120 |
| UK5 | 0.3774 | 0.3684 | 0.3569 | 0.3297 | 0.3543 | 0.3623 | 0.3831 | 0.3728 |
| UK6 | 0.3636 | 0.3320 | 0.3400 | 0.3345 | 0.3352 | 0.3322 | 0.3367 | 0.3227 |
| UK9 | 0.3392 | 0.3821 | 0.3314 | 0.3275 | 0.3373 | 0.3243 | 0.3400 | 0.3519 |
| UKA | 0.3625 | 0.3692 | 0.3651 | 0.3230 | 0.3408 | 0.3199 | 0.3124 | 0.3115 |
| UKB | 0.3453 | 0.4338 | | | | | | |

| P9010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|-------|--------|--------|---------|--------|--------|--------|--------|--------|
| AT1 | | 3.8168 | 3.5250 | 3.4232 | 3.3709 | 3.6442 | 3.3413 | 3.4028 |
| AT2 | | 3.1731 | 3.0460 | 3.1300 | 3.1743 | 2.9160 | 3.0484 | 2.9034 |
| AT3 | | 3.5499 | 3.4986 | 3.3170 | 3.0732 | 2.9931 | 2.9877 | 2.9530 |
| BE1 | 4.6440 | 3.8058 | 3.7687 | 3.7052 | 3.8355 | 3.7399 | 3.9067 | 3.9421 |
| BE2 | 3.5856 | 3.5466 | 3.4259 | 3.3153 | 3.3373 | 3.2072 | 3.1873 | 3.2868 |
| BE3 | 3.9322 | 3.6696 | 3.3333 | 3.4506 | 3.3128 | 3.2770 | 3.2092 | 3.4694 |
| DE1 | 7.6936 | 5.6740 | 3.7783 | 4.3575 | 3.9951 | 3.8096 | 3.3123 | 3.5318 |
| DE2 | 4.0324 | 4.5156 | 4.2595 | 3.8740 | 3.7410 | 3.2990 | 3.1630 | 3.4519 |
| DE3 | 3.4652 | 4.2526 | 3.9674 | 3.9362 | 4.3749 | 3.4537 | 3.5096 | 3.6257 |
| DE4 | 3.8104 | 3.4597 | 2.8495 | 2.6182 | 2.8232 | 2.3011 | 2.4291 | 2.6899 |
| DE5 | 5.5641 | 6.5534 | 12.9013 | 3.5528 | 4.2312 | 2.5774 | 2.0640 | 2.2040 |
| DE6 | 4.2234 | 2.9988 | 3.7944 | 3.3081 | 3.1206 | 2.5993 | 3.0549 | 4.8421 |
| DE7 | 4.4412 | 4.3640 | 4.4475 | 4.1681 | 3.4352 | 4.1174 | 3.7300 | 3.5291 |
| DE8 | 3.5552 | 3.8402 | 5.2294 | 3.3222 | 3.4375 | 6.2227 | 3.7569 | 3.5862 |
| DE9 | 3.9369 | 4.0537 | 3.4811 | 3.7184 | 3.6787 | 3.2129 | 3.7089 | 3.0531 |
| DEA | 4.5497 | 4.0441 | 3.7594 | 3.6877 | 3.7615 | 3.5656 | 3.5419 | 3.3567 |
| DEX | 3.6505 | 2.9646 | 2.8353 | 2.4822 | 2.5393 | 2.4247 | 2.2461 | 2.3503 |
| DED | 3.5762 | 3.2582 | 2.3392 | 2.2573 | 2.4669 | 2.6507 | 2.6460 | 2.5232 |
| DEE | 4.1012 | 6.2455 | 3.2713 | 3.0506 | 3.4662 | 2.7459 | 3.0618 | 2.7024 |
| DEF | 2.7871 | 2.6921 | 2.7506 | 2.8981 | 3.0123 | 2.9050 | 3.0744 | 2.5692 |
| DEG | 4.1998 | 5.3856 | 4.8977 | 2.8917 | 3.0198 | 3.2369 | 2.8136 | 2.8906 |
| DK0 | 2.8846 | 2.8397 | 2.7743 | 2.8539 | 3.0167 | 2.9669 | 2.9383 | 3.0785 |
| EL1 | 8.1277 | 6.5795 | 6.0250 | 6.1974 | 6.1512 | 5.7950 | 5.1768 | 5.0732 |
| EL2 | 7.8431 | 5.9866 | 6.4089 | 6.4509 | 6.6211 | 6.2162 | 5.4201 | 5.3947 |
| EL3 | 4.3412 | 4.6305 | 4.2187 | 4.3507 | 4.5785 | 4.2020 | 3.9576 | 3.8889 |
| EL4 | 7.1276 | 6.7000 | 6.3993 | 6.2079 | 6.4472 | 5.1970 | 5.0798 | 4.5018 |
| ES1 | 4.0929 | 4.2255 | 4.0993 | 4.6667 | 4.0267 | 4.3266 | 3.7245 | 3.8333 |
| ES2 | 4.4782 | 3.9956 | 3.9589 | 4.2301 | 4.1637 | 4.0316 | 3.6967 | 3.8594 |
| ES3 | 4.1816 | 4.4822 | 4.8787 | 5.1116 | 4.7552 | 5.2857 | 4.3123 | 4.6585 |
| ES4 | 4.3033 | 4.3338 | 4.1160 | 3.9235 | 4.0063 | 4.3207 | 3.8067 | 3.9815 |
| ES5 | 4.5870 | 4.4064 | 4.1370 | 4.2176 | 4.2607 | 3.9857 | 4.0178 | 3.9594 |
| ES6 | 4.9405 | 4.4738 | 4.8910 | 5.2001 | 4.7974 | 4.3101 | 3.8532 | 3.8228 |
| ES7 | 5.0556 | 4.7524 | 4.4055 | 5.3685 | 4.6801 | 4.3804 | 4.1482 | 4.4444 |
| FI | | | 2.8006 | 2.8978 | 3.0625 | 3.2224 | 3.1757 | 3.2463 |
| FR1 | 4.8734 | 4.3256 | 3.9641 | 3.8364 | 3.9755 | 4.0207 | 4.0626 | 3.6560 |
| FR2 | 3.6609 | 3.5653 | 3.3808 | 3.2859 | 3.2472 | 3.2860 | 3.2348 | 3.0895 |
| FR3 | 3.9490 | 3.5393 | 3.4390 | 3.5199 | 3.7585 | 3.2002 | 3.1973 | 3.1824 |
| FR4 | 3.4920 | 3.4393 | 3.1689 | 3.0460 | 3.2487 | 3.1976 | 3.1245 | 2.9526 |
| FR5 | 3.4268 | 3.3921 | 3.4112 | 3.6244 | 3.3747 | 3.4031 | 3.4407 | 3.3735 |
| FR6 | 4.3743 | 3.9410 | 3.5056 | 4.1024 | 3.6477 | 3.5577 | 3.8054 | 3.8035 |
| FR7 | 4.0102 | 3.8338 | 3.6296 | 3.7640 | 3.4589 | 3.3964 | 3.3325 | 3.1314 |
| FR8 | 4.2990 | 3.8822 | 3.7445 | 3.7265 | 3.5397 | 3.3465 | 3.5058 | 3.5477 |

| P9010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 4.2039 | 4.3347 | 4.2662 | 4.2743 | 4.2658 | 4.5000 | 4.5047 | 4.3985 |
| ITC | 3.9240 | 3.8083 | 3.7085 | 3.5618 | 3.6687 | 3.2000 | 3.2217 | 3.0203 |
| ITF | 5.1096 | 4.5540 | 4.5943 | 4.5292 | 4.2468 | 4.3000 | 4.0816 | 4.2121 |
| ITG | 5.8163 | 6.3100 | 6.0408 | 5.0854 | 4.7593 | 4.5548 | 5.0244 | 5.1932 |
| ITH_ITD | 4.0326 | 3.8502 | 3.6174 | 3.3800 | 3.3732 | 3.3087 | 2.9639 | 3.3572 |
| ITI_ITE | 3.8115 | 3.9222 | 3.8408 | 3.9029 | 3.7167 | 3.3842 | 3.2892 | 3.6169 |
| LU0 | 4.1312 | 3.3240 | 3.0822 | 3.1132 | 3.1498 | 3.3266 | 3.2265 | 3.2188 |
| NL | 3.3840 | 3.4335 | 3.5866 | 3.2443 | 3.1201 | 3.1859 | 3.1452 | 3.1857 |
| PT | 6.8897 | 6.2960 | 5.6713 | 5.7382 | 5.7108 | 5.4588 | 5.4067 | 5.4127 |
| SE1 | | | | 2.8854 | 3.1045 | 2.9411 | 3.5284 | 3.2083 |
| SE2 | | | | 2.7025 | 3.0904 | 2.7134 | 2.9571 | 2.9050 |
| SE3 | | | | 2.6254 | 2.7050 | 2.6915 | 2.7323 | 2.8802 |
| UK1 | 4.7502 | 4.2059 | 3.9333 | 4.0827 | 3.7548 | 4.5117 | 4.2520 | 3.9387 |
| UK8 | 4.9000 | 5.0091 | 4.8508 | 4.6401 | 4.5553 | 4.5822 | 4.2977 | 4.2970 |
| UK2 | 4.6310 | 4.7420 | 4.4292 | 3.9774 | 4.5709 | 4.3007 | 3.7124 | 3.9135 |
| UK3 | 4.1855 | 4.2156 | 4.2457 | 3.8878 | 4.7219 | 4.1419 | 4.4352 | 4.4114 |
| UK7 | 5.0958 | 4.4132 | 4.3473 | 4.6008 | 4.7727 | 4.4975 | 4.4906 | 4.7201 |
| UK4 | 5.1391 | 4.2617 | 4.5102 | 4.9735 | 5.0260 | 4.6388 | 4.5534 | 4.6590 |
| UK5 | 5.5690 | 5.1531 | 5.0634 | 4.3561 | 4.7055 | 4.7000 | 5.2332 | 4.8485 |
| UK6 | 5.2692 | 4.6942 | 4.8680 | 4.0305 | 4.7562 | 4.1622 | 4.5321 | 4.3087 |
| UK9 | 4.5525 | 4.5952 | 4.4034 | 4.4236 | 4.3760 | 3.9363 | 4.1713 | 3.6382 |
| UKA | 4.8665 | 4.6305 | 4.4140 | 4.0400 | 4.2179 | 4.0039 | 3.6129 | 3.8758 |
| UKB | 4.0414 | 6.7417 | | | | | | |

| P5010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | | 1.9631 | 1.9692 | 1.9826 | 1.8665 | 1.9695 | 1.8317 | 1.8758 |
| AT2 | | 1.7769 | 1.7804 | 1.8186 | 1.7859 | 1.6995 | 1.7598 | 1.7793 |
| AT3 | | 1.9015 | 1.9450 | 1.9416 | 1.8946 | 1.8370 | 1.8313 | 1.8075 |
| BE1 | 2.3762 | 2.0307 | 2.1290 | 2.0548 | 2.0560 | 1.7295 | 2.0384 | 1.9196 |
| BE2 | 1.9603 | 2.0025 | 1.9168 | 1.8855 | 1.8648 | 1.8634 | 1.8071 | 1.8169 |
| BE3 | 2.0956 | 1.9720 | 1.8983 | 1.8686 | 1.8602 | 1.7886 | 1.7735 | 1.7779 |
| DE1 | 4.1848 | 2.6020 | 2.0079 | 2.3588 | 2.3008 | 2.1024 | 1.9031 | 1.8544 |
| DE2 | 1.9957 | 2.3137 | 2.0800 | 1.9637 | 1.9975 | 1.7955 | 1.7680 | 1.8243 |
| DE3 | 2.0569 | 2.4671 | 2.1074 | 2.1261 | 2.1328 | 1.9063 | 1.9226 | 2.0051 |
| DE4 | 2.1861 | 1.8624 | 1.6866 | 1.6369 | 1.7495 | 1.4841 | 1.4828 | 1.5370 |
| DE5 | 3.5572 | 2.5744 | 7.1020 | 2.4216 | 2.7846 | 1.6087 | 1.5146 | 1.4119 |
| DE6 | 2.2436 | 1.6369 | 1.9307 | 1.9062 | 1.8067 | 1.6000 | 1.6966 | 2.5404 |
| DE7 | 2.3833 | 2.3019 | 2.4182 | 2.2064 | 1.7913 | 2.1724 | 1.8611 | 1.7443 |
| DE8 | 2.0096 | 2.3906 | 3.2763 | 2.1897 | 2.1611 | 3.6293 | 2.0766 | 1.9485 |
| DE9 | 1.9000 | 2.2763 | 1.9476 | 2.0026 | 2.0523 | 1.7814 | 1.9393 | 1.8594 |
| DEA | 2.2506 | 2.0886 | 1.9219 | 1.9200 | 1.9056 | 1.8010 | 1.8488 | 1.8267 |
| DEX | 2.1833 | 1.9146 | 1.7914 | 1.6090 | 1.6606 | 1.5264 | 1.5126 | 1.5202 |
| DED | 2.2724 | 2.0983 | 1.5231 | 1.5709 | 1.5977 | 1.7044 | 1.7034 | 1.6677 |
| DEE | 2.0297 | 2.7841 | 1.6654 | 1.7138 | 1.8024 | 1.5205 | 1.5491 | 1.5673 |
| DEF | 1.8091 | 1.7192 | 1.8634 | 1.8528 | 2.0106 | 1.9104 | 2.0113 | 1.7425 |
| DEG | 2.2753 | 2.8638 | 2.9371 | 1.7424 | 1.7326 | 1.7537 | 1.6227 | 1.6765 |
| DK0 | 1.7370 | 1.7348 | 1.7233 | 1.7863 | 1.8566 | 1.8702 | 1.8558 | 1.9050 |
| EL1 | 3.5745 | 2.9348 | 2.6923 | 2.6837 | 2.6944 | 2.5200 | 2.3661 | 2.3902 |
| EL2 | 3.4963 | 2.6652 | 2.9372 | 2.7602 | 2.9274 | 2.6749 | 2.3293 | 2.4407 |
| EL3 | 2.1914 | 2.1921 | 2.1488 | 2.1139 | 2.2273 | 2.0364 | 1.9733 | 2.0556 |
| EL4 | 3.6508 | 3.1525 | 2.8688 | 3.0144 | 3.0023 | 2.5263 | 2.5975 | 2.3224 |
| ES1 | 1.9565 | 1.9641 | 1.9630 | 2.0890 | 1.8610 | 2.0553 | 1.9703 | 2.0993 |
| ES2 | 2.0932 | 1.9878 | 1.8877 | 2.0027 | 1.9368 | 2.0565 | 1.8901 | 1.9432 |
| ES3 | 2.0130 | 2.0349 | 2.2793 | 2.3548 | 2.1766 | 2.5872 | 2.2152 | 2.4541 |
| ES4 | 1.9468 | 1.9970 | 1.9289 | 1.8348 | 1.8260 | 1.9103 | 1.7802 | 1.8573 |
| ES5 | 2.0730 | 2.0039 | 1.9597 | 1.9983 | 1.9548 | 1.9168 | 1.9126 | 1.9888 |
| ES6 | 2.2053 | 2.0636 | 2.3104 | 2.3844 | 2.2393 | 2.1300 | 1.9115 | 2.0026 |
| ES7 | 2.1664 | 2.1014 | 2.0183 | 2.1928 | 2.0552 | 2.1329 | 1.9187 | 1.9541 |
| FI | | | 1.6545 | 1.6642 | 1.7743 | 1.8290 | 1.8315 | 1.8821 |
| FR1 | 2.2475 | 2.1895 | 2.0208 | 1.9799 | 2.0976 | 2.1751 | 2.0555 | 1.9157 |
| FR2 | 2.0246 | 1.9312 | 1.8419 | 1.8143 | 1.8122 | 1.8447 | 1.8529 | 1.8164 |
| FR3 | 2.0277 | 1.9101 | 1.8713 | 1.8929 | 2.1361 | 1.8918 | 1.8403 | 1.8000 |
| FR4 | 1.9647 | 1.9110 | 1.8337 | 1.7895 | 1.9108 | 1.8696 | 1.8402 | 1.7952 |
| FR5 | 1.9539 | 1.8915 | 1.8399 | 1.9217 | 1.8809 | 1.9259 | 1.9223 | 1.9463 |
| FR6 | 2.2723 | 2.1053 | 1.9114 | 2.1139 | 1.9322 | 1.9121 | 1.9471 | 1.9553 |
| FR7 | 2.1864 | 2.0999 | 2.1019 | 2.0870 | 1.9312 | 1.9007 | 1.8869 | 1.8280 |
| FR8 | 2.0309 | 1.9497 | 1.9020 | 1.9176 | 1.8467 | 1.8210 | 1.8734 | 1.9672 |

| P5010 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 1.8641 | 1.9293 | 1.9576 | 1.9994 | 2.0466 | 2.1317 | 2.1888 | 2.2870 |
| ITC | 2.1000 | 2.1168 | 1.9993 | 2.0308 | 2.0156 | 1.8167 | 1.8742 | 1.8281 |
| ITF | 2.4863 | 2.2868 | 2.2802 | 2.2958 | 2.1595 | 2.1231 | 2.1048 | 2.0779 |
| ITG | 2.7066 | 2.8000 | 2.7771 | 2.5034 | 2.4184 | 2.3100 | 2.4486 | 2.4084 |
| ITH_ITD | 2.1237 | 2.0468 | 1.9511 | 1.9118 | 2.0000 | 1.8709 | 1.7507 | 1.8588 |
| ITI_ITE | 2.0471 | 1.9928 | 2.0655 | 2.0583 | 1.9556 | 1.8711 | 1.9113 | 2.0194 |
| LU0 | 1.7721 | 1.8088 | 1.7351 | 1.7201 | 1.7532 | 1.7806 | 1.7320 | 1.7325 |
| NL | 1.7687 | 1.8080 | 1.8657 | 1.7667 | 1.7285 | 1.7774 | 1.7296 | 1.7460 |
| PT | 2.7557 | 2.5422 | 2.3793 | 2.3293 | 2.3653 | 2.2677 | 2.3043 | 2.2599 |
| SE1 | | | | 1.7511 | 1.7880 | 1.7141 | 1.9982 | 1.8573 |
| SE2 | | | | 1.6494 | 1.8162 | 1.6638 | 1.8119 | 1.7706 |
| SE3 | | | | 1.6451 | 1.6849 | 1.6732 | 1.6935 | 1.7453 |
| UK1 | 2.2102 | 2.1446 | 1.9349 | 2.0692 | 1.9270 | 2.0739 | 1.9271 | 1.9544 |
| UK8 | 2.3813 | 2.1863 | 2.1873 | 2.1902 | 2.1402 | 2.3174 | 2.1580 | 2.2026 |
| UK2 | 2.1510 | 2.1235 | 1.9894 | 2.0716 | 2.2099 | 2.0481 | 1.9339 | 1.9889 |
| UK3 | 2.1665 | 2.0188 | 1.9815 | 1.9447 | 2.0508 | 2.0309 | 2.1707 | 2.1068 |
| UK7 | 2.4186 | 2.1509 | 2.0577 | 2.2248 | 2.2191 | 2.1258 | 2.2075 | 2.0472 |
| UK4 | 2.3660 | 2.1554 | 1.9451 | 2.1488 | 2.3388 | 2.1117 | 2.2767 | 2.1566 |
| UK5 | 2.4021 | 2.2143 | 2.2705 | 2.0825 | 2.1582 | 2.1306 | 2.2920 | 2.1874 |
| UK6 | 2.3503 | 2.1938 | 2.2266 | 2.0217 | 2.3371 | 2.0544 | 2.2430 | 2.1131 |
| UK9 | 2.0938 | 2.0688 | 1.9456 | 1.8529 | 1.9069 | 1.9329 | 1.9839 | 1.8135 |
| UKA | 2.2943 | 2.1277 | 1.9951 | 2.0781 | 2.1341 | 2.0615 | 1.8121 | 1.9684 |
| UKB | 1.9024 | 2.0949 | | | | | | |

| P9050 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | | 1.9443 | 1.7900 | 1.7266 | 1.8060 | 1.8504 | 1.8241 | 1.8141 |
| AT2 | | 1.7857 | 1.7109 | 1.7212 | 1.7774 | 1.7157 | 1.7322 | 1.6317 |
| AT3 | | 1.8669 | 1.7988 | 1.7084 | 1.6221 | 1.6294 | 1.6315 | 1.6338 |
| BE1 | 1.9543 | 1.8741 | 1.7702 | 1.8032 | 1.8655 | 2.1625 | 1.9166 | 2.0536 |
| BE2 | 1.8291 | 1.7710 | 1.7873 | 1.7583 | 1.7896 | 1.7211 | 1.7637 | 1.8091 |
| BE3 | 1.8764 | 1.8609 | 1.7560 | 1.8466 | 1.7808 | 1.8321 | 1.8095 | 1.9513 |
| DE1 | 1.8385 | 2.1807 | 1.8817 | 1.8473 | 1.7364 | 1.8120 | 1.7405 | 1.9045 |
| DE2 | 2.0205 | 1.9517 | 2.0479 | 1.9728 | 1.8728 | 1.8374 | 1.7890 | 1.8922 |
| DE3 | 1.6847 | 1.7237 | 1.8826 | 1.8514 | 2.0513 | 1.8118 | 1.8254 | 1.8082 |
| DE4 | 1.7430 | 1.8577 | 1.6895 | 1.5995 | 1.6138 | 1.5505 | 1.6382 | 1.7501 |
| DE5 | 1.5642 | 2.5456 | 1.8166 | 1.4671 | 1.5195 | 1.6021 | 1.3627 | 1.5611 |
| DE6 | 1.8824 | 1.8321 | 1.9653 | 1.7355 | 1.7273 | 1.6246 | 1.8007 | 1.9061 |
| DE7 | 1.8635 | 1.8958 | 1.8392 | 1.8891 | 1.9177 | 1.8953 | 2.0042 | 2.0232 |
| DE8 | 1.7690 | 1.6064 | 1.5961 | 1.5172 | 1.5906 | 1.7146 | 1.8092 | 1.8405 |
| DE9 | 2.0720 | 1.7808 | 1.7874 | 1.8567 | 1.7925 | 1.8036 | 1.9125 | 1.6420 |
| DEA | 2.0215 | 1.9362 | 1.9561 | 1.9206 | 1.9740 | 1.9798 | 1.9157 | 1.8376 |
| DEX | 1.6720 | 1.5484 | 1.5828 | 1.5427 | 1.5292 | 1.5885 | 1.4849 | 1.5460 |
| DED | 1.5738 | 1.5528 | 1.5358 | 1.4370 | 1.5441 | 1.5552 | 1.5534 | 1.5129 |
| DEE | 2.0206 | 2.2433 | 1.9643 | 1.7800 | 1.9231 | 1.8058 | 1.9765 | 1.7243 |
| DEF | 1.5406 | 1.5659 | 1.4761 | 1.5642 | 1.4982 | 1.5206 | 1.5286 | 1.4744 |
| DEG | 1.8459 | 1.8806 | 1.6675 | 1.6596 | 1.7430 | 1.8457 | 1.7339 | 1.7242 |
| DK0 | 1.6607 | 1.6369 | 1.6098 | 1.5977 | 1.6249 | 1.5864 | 1.5833 | 1.6160 |
| EL1 | 2.2738 | 2.2419 | 2.2379 | 2.3093 | 2.2830 | 2.2996 | 2.1879 | 2.1224 |
| EL2 | 2.2432 | 2.2462 | 2.1820 | 2.3372 | 2.2618 | 2.3239 | 2.3269 | 2.2103 |
| EL3 | 1.9810 | 2.1124 | 1.9633 | 2.0582 | 2.0556 | 2.0635 | 2.0056 | 1.8919 |
| EL4 | 1.9523 | 2.1253 | 2.2307 | 2.0594 | 2.1474 | 2.0571 | 1.9557 | 1.9385 |
| ES1 | 2.0919 | 2.1514 | 2.0883 | 2.2340 | 2.1638 | 2.1051 | 1.8903 | 1.8260 |
| ES2 | 2.1395 | 2.0100 | 2.0972 | 2.1122 | 2.1498 | 1.9604 | 1.9558 | 1.9861 |
| ES3 | 2.0773 | 2.2026 | 2.1405 | 2.1707 | 2.1847 | 2.0431 | 1.9467 | 1.8983 |
| ES4 | 2.2105 | 2.1702 | 2.1339 | 2.1384 | 2.1941 | 2.2618 | 2.1384 | 2.1437 |
| ES5 | 2.2128 | 2.1989 | 2.1110 | 2.1106 | 2.1796 | 2.0793 | 2.1006 | 1.9908 |
| ES6 | 2.2403 | 2.1679 | 2.1170 | 2.1809 | 2.1424 | 2.0236 | 2.0157 | 1.9089 |
| ES7 | 2.3336 | 2.2615 | 2.1828 | 2.4482 | 2.2772 | 2.0537 | 2.1620 | 2.2744 |
| FI | | | 1.6927 | 1.7413 | 1.7260 | 1.7619 | 1.7339 | 1.7248 |
| FR1 | 2.1684 | 1.9756 | 1.9617 | 1.9376 | 1.8952 | 1.8485 | 1.9765 | 1.9084 |
| FR2 | 1.8082 | 1.8461 | 1.8355 | 1.8111 | 1.7918 | 1.7813 | 1.7458 | 1.7009 |
| FR3 | 1.9475 | 1.8529 | 1.8378 | 1.8595 | 1.7595 | 1.6916 | 1.7374 | 1.7680 |
| FR4 | 1.7774 | 1.7997 | 1.7282 | 1.7021 | 1.7002 | 1.7103 | 1.6979 | 1.6447 |
| FR5 | 1.7538 | 1.7933 | 1.8540 | 1.8860 | 1.7942 | 1.7670 | 1.7899 | 1.7332 |
| FR6 | 1.9251 | 1.8720 | 1.8340 | 1.9406 | 1.8879 | 1.8606 | 1.9544 | 1.9452 |
| FR7 | 1.8341 | 1.8257 | 1.7268 | 1.8035 | 1.7910 | 1.7869 | 1.7662 | 1.7131 |
| FR8 | 2.1168 | 1.9912 | 1.9687 | 1.9433 | 1.9168 | 1.8377 | 1.8713 | 1.8035 |

| P9050 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 2.2552 | 2.2468 | 2.1794 | 2.1377 | 2.0843 | 2.1110 | 2.0581 | 1.9232 |
| ITC | 1.8686 | 1.7991 | 1.8549 | 1.7539 | 1.8201 | 1.7615 | 1.7190 | 1.6521 |
| ITF | 2.0550 | 1.9914 | 2.0149 | 1.9729 | 1.9666 | 2.0254 | 1.9392 | 2.0271 |
| ITG | 2.1489 | 2.2536 | 2.1752 | 2.0314 | 1.9679 | 1.9718 | 2.0520 | 2.1563 |
| ITH_ITD | 1.8988 | 1.8810 | 1.8541 | 1.7680 | 1.6866 | 1.7685 | 1.6930 | 1.8061 |
| ITI_ITE | 1.8619 | 1.9682 | 1.8595 | 1.8962 | 1.9006 | 1.8087 | 1.7209 | 1.7910 |
| LU0 | 2.3313 | 1.8376 | 1.7764 | 1.8099 | 1.7966 | 1.8682 | 1.8628 | 1.8579 |
| NL | 1.9133 | 1.8990 | 1.9224 | 1.8364 | 1.8051 | 1.7924 | 1.8184 | 1.8245 |
| PT | 2.5002 | 2.4765 | 2.3836 | 2.4634 | 2.4143 | 2.4072 | 2.3463 | 2.3951 |
| SE1 | | | | 1.6478 | 1.7362 | 1.7158 | 1.7658 | 1.7274 |
| SE2 | | | | 1.6385 | 1.7015 | 1.6308 | 1.6321 | 1.6406 |
| SE3 | | | | 1.5959 | 1.6054 | 1.6085 | 1.6134 | 1.6502 |
| UK1 | 2.1492 | 1.9612 | 2.0328 | 1.9730 | 1.9485 | 2.1755 | 2.2064 | 2.0153 |
| UK8 | 2.0577 | 2.2912 | 2.2177 | 2.1186 | 2.1285 | 1.9773 | 1.9915 | 1.9509 |
| UK2 | 2.1530 | 2.2332 | 2.2264 | 1.9199 | 2.0684 | 2.0999 | 1.9196 | 1.9677 |
| UK3 | 1.9319 | 2.0882 | 2.1427 | 1.9992 | 2.3024 | 2.0395 | 2.0432 | 2.0939 |
| UK7 | 2.1069 | 2.0518 | 2.1127 | 2.0680 | 2.1508 | 2.1156 | 2.0343 | 2.3056 |
| UK4 | 2.1721 | 1.9772 | 2.3188 | 2.3146 | 2.1490 | 2.1967 | 2.0000 | 2.1603 |
| UK5 | 2.3184 | 2.3271 | 2.2301 | 2.0917 | 2.1802 | 2.2059 | 2.2833 | 2.2166 |
| UK6 | 2.2420 | 2.1398 | 2.1863 | 1.9937 | 2.0351 | 2.0260 | 2.0205 | 2.0390 |
| UK9 | 2.1743 | 2.2211 | 2.2633 | 2.3874 | 2.2948 | 2.0365 | 2.1026 | 2.0061 |
| UKA | 2.1212 | 2.1763 | 2.2124 | 1.9441 | 1.9764 | 1.9422 | 1.9938 | 1.9690 |
| UKB | 2.1244 | 3.2182 | | | | | | |

APPENDIX 5. Income inequality measures at the regional level from EU-SILC

| Gini index | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | 0.2677 | 0.2738 | 0.2747 | 0.2775 | 0.2729 | 0.2706 | 0.2742 | 0.2783 | 0.2975 |
| AT2 | 0.2405 | 0.2557 | 0.2280 | 0.2415 | 0.2384 | 0.2348 | 0.2477 | 0.2525 | 0.2544 |
| AT3 | 0.2542 | 0.2454 | 0.2414 | 0.2509 | 0.2585 | 0.2479 | 0.2500 | 0.2486 | 0.2606 |
| BE1 | 0.3384 | 0.4645 | 0.4428 | 0.3705 | 0.3624 | 0.3645 | 0.3508 | 0.3587 | |
| BE2 | 0.2424 | 0.2447 | 0.2435 | 0.2365 | 0.2500 | 0.2342 | 0.2410 | 0.2432 | |
| BE3 | 0.2501 | 0.2689 | 0.2588 | 0.2603 | 0.2734 | 0.2545 | 0.2532 | 0.2535 | |
| BG3 | | | | | 0.3698 | 0.3422 | 0.3330 | 0.3524 | 0.3321 |
| BG4 | | | | | 0.3411 | 0.3196 | 0.3208 | 0.3388 | 0.3308 |
| CH0 | | | | | 0.3114 | 0.3003 | 0.2948 | 0.2952 | 0.2863 |
| CY0 | | 0.2871 | 0.2876 | 0.2977 | 0.2891 | 0.2935 | 0.3005 | 0.2916 | 0.3097 |
| CZ0 | | 0.2598 | 0.2530 | 0.2523 | 0.2472 | 0.2504 | 0.2488 | 0.2523 | 0.2488 |
| DE1 | | 0.2529 | 0.2588 | | | | | | |
| DE2 | | 0.2706 | 0.2725 | | | | | | |
| DEA | | 0.2618 | 0.2577 | | | | | | |
| DECE | | 0.2658 | 0.2698 | | | | | | |
| DENE | | 0.2461 | 0.2372 | | | | | | |
| DENW | | 0.2359 | 0.2618 | | | | | | |
| DK0 | 0.2324 | 0.2273 | 0.2299 | 0.2405 | 0.2439 | 0.2333 | 0.2464 | 0.2596 | 0.2610 |
| EE0 | 0.3674 | 0.3348 | 0.3283 | 0.3324 | 0.3079 | 0.3123 | 0.3107 | 0.3171 | 0.3212 |
| EL1 | 0.3042 | 0.3157 | 0.3262 | 0.3223 | 0.3076 | 0.3025 | 0.3021 | 0.3306 | 0.3103 |
| EL2 | 0.3257 | 0.3427 | 0.3505 | 0.3340 | 0.3447 | 0.3234 | 0.3121 | 0.3041 | 0.3095 |
| EL3 | 0.3003 | 0.3072 | 0.3235 | 0.3382 | 0.3200 | 0.3241 | 0.3306 | 0.3291 | 0.3331 |
| EL4 | 0.2958 | 0.3132 | 0.3258 | 0.3180 | 0.2898 | 0.3035 | 0.2867 | 0.2987 | 0.2915 |
| ES1 | 0.2883 | 0.3060 | 0.2940 | 0.2868 | 0.2732 | 0.2853 | 0.3012 | 0.3156 | 0.3169 |
| ES2 | 0.2673 | 0.2885 | 0.2759 | 0.2722 | 0.2715 | 0.2788 | 0.2923 | 0.3011 | 0.3145 |
| ES3 | 0.2739 | 0.3161 | 0.3119 | 0.3182 | 0.3101 | 0.3140 | 0.3050 | 0.3181 | 0.3248 |
| ES4 | 0.3039 | 0.3304 | 0.3214 | 0.3100 | 0.3158 | 0.3188 | 0.3358 | 0.3413 | 0.3360 |
| ES5 | 0.2938 | 0.2984 | 0.2857 | 0.2943 | 0.3007 | 0.2970 | 0.3224 | 0.3110 | 0.3231 |
| ES6 | 0.3153 | 0.3070 | 0.3103 | 0.3053 | 0.3145 | 0.3240 | 0.3430 | 0.3462 | 0.3404 |
| ES7 | 0.2999 | 0.3255 | 0.3243 | 0.3162 | 0.3119 | 0.3377 | 0.3289 | 0.3692 | 0.3465 |
| FI | 0.2522 | 0.2570 | 0.2579 | 0.2606 | 0.2621 | 0.2580 | 0.2527 | 0.2577 | 0.2584 |
| FR1 | 0.2929 | 0.3004 | 0.2841 | 0.2879 | 0.3282 | 0.3259 | 0.3176 | 0.3531 | 0.3461 |
| FR2 | 0.2694 | 0.2477 | 0.2694 | 0.2523 | 0.2675 | 0.2654 | 0.2977 | 0.2777 | 0.2764 |
| FR3 | 0.2931 | 0.2731 | 0.2681 | 0.2530 | 0.2676 | 0.2703 | 0.2814 | 0.2882 | 0.2809 |
| FR4 | 0.2561 | 0.2483 | 0.2378 | 0.2391 | 0.2665 | 0.2872 | 0.2918 | 0.2989 | 0.2784 |
| FR5 | 0.2465 | 0.2342 | 0.2493 | 0.2372 | 0.2766 | 0.2725 | 0.2673 | 0.2548 | 0.2625 |
| FR6 | 0.2851 | 0.3001 | 0.2666 | 0.2724 | 0.3092 | 0.3091 | 0.2876 | 0.3083 | 0.3290 |
| FR7 | 0.2727 | 0.2698 | 0.2708 | 0.2463 | 0.2965 | 0.2893 | 0.2740 | 0.3097 | 0.2882 |
| FR8 | 0.2921 | 0.2924 | 0.2737 | 0.2745 | 0.2950 | 0.3137 | 0.3046 | 0.3111 | 0.2952 |
| HR0 | | | | | | | | 0.3070 | 0.3033 |
| HU1 | | 0.2793 | 0.3143 | 0.2587 | 0.2616 | 0.2426 | 0.2405 | 0.2761 | 0.2917 |
| HU2 | | 0.2592 | 0.3027 | 0.2297 | 0.2294 | 0.2350 | 0.2216 | 0.2420 | 0.2346 |
| HU3 | | 0.2590 | 0.3369 | 0.2536 | 0.2402 | 0.2376 | 0.2321 | 0.2547 | 0.2521 |

| Gini index | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 0.3157 | 0.3184 | 0.3192 | 0.3132 | 0.2993 | 0.2866 | 0.3004 | 0.2961 | |
| IS0 | 0.2398 | 0.2499 | 0.2587 | 0.2801 | 0.2716 | 0.2949 | 0.2566 | 0.2335 | 0.2375 |
| ITC | 0.3104 | 0.3141 | 0.2967 | 0.2974 | 0.2872 | 0.2912 | 0.2956 | 0.2928 | 0.2963 |
| ITF | 0.3317 | 0.3210 | 0.3257 | 0.3176 | 0.3089 | 0.3092 | 0.3079 | 0.3165 | 0.3216 |
| ITG | 0.3494 | 0.3418 | 0.3338 | 0.3247 | 0.3081 | 0.3236 | 0.3198 | 0.3314 | 0.3165 |
| ITH_ITD | 0.2877 | 0.2861 | 0.2773 | 0.2784 | 0.2749 | 0.2800 | 0.2759 | 0.2771 | 0.2831 |
| ITI_ITE | 0.3131 | 0.2961 | 0.3003 | 0.3081 | 0.2932 | 0.2991 | 0.2904 | 0.3005 | 0.3013 |
| LT0 | | 0.3593 | 0.3473 | 0.3363 | 0.3362 | 0.3520 | 0.3650 | 0.3254 | 0.3168 |
| LU0 | 0.2621 | 0.2632 | 0.2752 | 0.2734 | 0.2743 | 0.2909 | 0.2758 | 0.2693 | 0.2769 |
| LV0 | | 0.3553 | 0.3860 | 0.3509 | 0.3729 | 0.3721 | 0.3558 | 0.3473 | 0.3543 |
| MT0 | | | | | | 0.2720 | 0.2819 | 0.2730 | 0.2710 |
| NL | | 0.2567 | 0.2555 | 0.2683 | 0.2688 | 0.2656 | 0.2500 | 0.2493 | 0.2496 |
| NO0 | 0.2510 | 0.2810 | 0.2821 | 0.2349 | 0.2424 | 0.2397 | 0.2336 | 0.2277 | 0.2234 |
| PL1 | | 0.3932 | 0.3715 | 0.3669 | 0.3698 | 0.3573 | 0.3433 | 0.3332 | 0.3320 |
| PL2 | | 0.3282 | 0.3098 | 0.3039 | 0.2944 | 0.2839 | 0.2823 | 0.2998 | 0.2792 |
| PL3 | | 0.3304 | 0.3141 | 0.2967 | 0.2925 | 0.2857 | 0.2987 | 0.3087 | 0.3206 |
| PL4 | | 0.3412 | 0.3068 | 0.2985 | 0.3041 | 0.3013 | 0.2977 | 0.2832 | 0.2979 |
| PL5 | | 0.3537 | 0.3384 | 0.3218 | 0.3019 | 0.3104 | 0.3165 | 0.3081 | 0.3182 |
| PL6 | | 0.3477 | 0.3146 | 0.2990 | 0.3027 | 0.3065 | 0.2979 | 0.3017 | 0.2905 |
| PT | 0.3773 | 0.3809 | 0.3767 | 0.3692 | 0.3577 | 0.3531 | 0.3357 | 0.3424 | 0.3454 |
| RO1 | | | | | | 0.3060 | 0.2920 | 0.2993 | 0.2930 |
| RO2 | | | | | | 0.3728 | 0.3526 | 0.3504 | 0.3599 |
| RO3 | | | | | | 0.3482 | 0.3313 | 0.3282 | 0.3177 |
| RO4 | | | | | | 0.3433 | 0.3308 | 0.3381 | 0.3362 |
| SE1 | | | | | 0.2518 | 0.2647 | 0.2538 | 0.2486 | 0.2543 |
| SE2 | | | | | 0.2242 | 0.2277 | 0.2290 | 0.2383 | 0.2347 |
| SE3 | | | | | 0.2139 | 0.2199 | 0.2138 | 0.2199 | 0.2353 |
| SI0 | | 0.2374 | 0.2373 | 0.2329 | 0.2342 | 0.2273 | 0.2380 | 0.2383 | 0.2378 |
| SK0 | | 0.2588 | 0.2801 | 0.2440 | 0.2355 | 0.2475 | 0.2584 | 0.2567 | 0.2527 |
| UKC | | | | | | | 0.2975 | 0.2929 | 0.2705 |
| UKD | | | | | | | 0.3012 | 0.2806 | 0.2921 |
| UKE | | | | | | | 0.3019 | 0.3042 | 0.3109 |
| UKF | | | | | | | 0.2989 | 0.2792 | 0.2717 |
| UKG | | | | | | | 0.3150 | 0.3049 | 0.2914 |
| UKH | | | | | | | 0.3181 | 0.3258 | 0.3575 |
| UKI | | | | | | | 0.3813 | 0.3843 | 0.3688 |
| UKJ | | | | | | | 0.3317 | 0.3442 | 0.3144 |
| UKK | | | | | | | 0.2879 | 0.3123 | 0.3091 |
| UKL | | | | | | | 0.2979 | 0.3032 | 0.3047 |
| UKM | | | | | | | 0.3189 | 0.3168 | 0.2948 |
| UKN | | | | | | | 0.2887 | 0.2277 | 0.2729 |

| P9010 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | 3.2711 | 3.2343 | 3.3904 | 3.3505 | 3.3524 | 3.2320 | 3.5258 | 3.4799 | 3.9378 |
| AT2 | 2.8868 | 3.0491 | 2.8145 | 2.8748 | 2.8941 | 2.9235 | 3.0567 | 2.9228 | 3.1789 |
| AT3 | 2.9737 | 2.8491 | 2.8354 | 2.8406 | 2.9891 | 2.8450 | 2.8171 | 2.8241 | 3.0966 |
| BE1 | 4.3324 | 4.0109 | 4.7672 | 4.5370 | 4.3037 | 4.5444 | 4.8002 | 4.5356 | |
| BE2 | 2.9832 | 2.8949 | 3.0198 | 2.9243 | 2.8768 | 2.8266 | 2.9521 | 2.8537 | |
| BE3 | 3.0532 | 3.1445 | 3.2213 | 3.2564 | 3.2387 | 3.1914 | 3.2125 | 3.1779 | |
| BG3 | | | | | 5.2179 | 4.9792 | 5.1000 | 5.0677 | 5.0631 |
| BG4 | | | | | 4.8838 | 4.4513 | 4.3746 | 5.0021 | 4.5544 |
| CH0 | | | | | 3.8561 | 3.5621 | 3.5065 | 3.4982 | 3.6233 |
| CY0 | | 3.6231 | 3.5224 | 3.5287 | 3.4849 | 3.5767 | 3.6614 | 3.6428 | 3.7316 |
| CZ0 | | 2.9966 | 2.8481 | 2.8881 | 2.7802 | 2.7242 | 2.7922 | 2.9060 | 2.8696 |
| DE1 | | 3.1104 | 3.0239 | | | | | | |
| DE2 | | 3.0223 | 3.2281 | | | | | | |
| DEA | | 3.1120 | 3.0424 | | | | | | |
| DECE | | 3.1227 | 3.1999 | | | | | | |
| DENE | | 2.8294 | 2.8408 | | | | | | |
| DENW | | 2.9061 | 3.0135 | | | | | | |
| DK0 | 2.6849 | 2.7115 | 2.6811 | 2.7556 | 2.7724 | 2.8207 | 2.9410 | 2.9980 | 3.0323 |
| EE0 | 5.3964 | 4.5533 | 4.3476 | 4.3018 | 4.0958 | 4.0659 | 4.0760 | 4.3374 | 4.3874 |
| EL1 | 4.3676 | 4.2191 | 4.5034 | 4.5327 | 4.3076 | 4.2411 | 4.0656 | 4.3370 | 4.8212 |
| EL2 | 4.5778 | 4.7855 | 4.8177 | 4.3728 | 4.1473 | 4.2737 | 4.1812 | 4.0017 | 5.0847 |
| EL3 | 4.0823 | 4.2194 | 4.2369 | 4.2964 | 4.2554 | 4.2665 | 4.6605 | 4.7256 | 4.8986 |
| EL4 | 4.0644 | 4.4911 | 4.0321 | 4.2101 | 3.7694 | 3.7481 | 3.5581 | 4.0156 | 4.6793 |
| ES1 | 3.7139 | 3.9609 | 3.7592 | 3.9655 | 3.6769 | 3.9484 | 4.2975 | 4.6107 | 4.4674 |
| ES2 | 3.5574 | 3.9677 | 3.7588 | 3.7604 | 3.7441 | 3.7575 | 4.4463 | 4.7399 | 5.0515 |
| ES3 | 3.4821 | 4.3358 | 4.2718 | 4.4597 | 4.3764 | 4.7110 | 4.7632 | 5.0098 | 5.6029 |
| ES4 | 4.1120 | 4.8080 | 4.3819 | 4.2273 | 4.0649 | 4.6367 | 5.6491 | 5.7360 | 5.5545 |
| ES5 | 4.0000 | 4.0095 | 3.8709 | 3.9090 | 4.2311 | 4.3776 | 4.8429 | 4.7114 | 5.4592 |
| ES6 | 4.3625 | 4.3195 | 4.4741 | 4.3956 | 4.7515 | 5.5777 | 5.9940 | 7.4253 | 5.3592 |
| ES7 | 3.9120 | 4.9398 | 4.3599 | 4.4422 | 4.8229 | 6.7047 | 5.4562 | 5.7121 | 6.1745 |
| FI | 2.8517 | 2.9069 | 2.9330 | 3.0193 | 3.0927 | 3.0620 | 2.9789 | 3.0524 | 3.0771 |
| FR1 | 3.7497 | 3.7850 | 3.7420 | 3.6832 | 3.8257 | 3.7251 | 3.8797 | 4.4171 | 4.1977 |
| FR2 | 3.0379 | 2.8497 | 2.8597 | 2.9730 | 3.0690 | 3.0051 | 3.1338 | 3.0903 | 2.9699 |
| FR3 | 3.3440 | 3.1197 | 2.9770 | 3.0596 | 2.9434 | 3.0207 | 3.2612 | 3.2447 | 3.0569 |
| FR4 | 2.9912 | 2.9321 | 2.8039 | 2.9869 | 3.0498 | 3.3063 | 3.2792 | 3.1641 | 3.3368 |
| FR5 | 2.9266 | 2.7699 | 2.9196 | 2.7793 | 3.1171 | 3.0369 | 3.0860 | 3.1091 | 3.1635 |
| FR6 | 3.2112 | 3.5538 | 3.4168 | 3.2514 | 3.4523 | 3.3323 | 3.2442 | 3.5152 | 3.5346 |
| FR7 | 3.2273 | 3.2179 | 2.9740 | 3.0791 | 3.4929 | 3.2718 | 3.3156 | 3.3212 | 3.2809 |
| FR8 | 3.5978 | 3.4341 | 3.4773 | 3.4279 | 3.4704 | 3.6346 | 3.6930 | 3.6708 | 3.4395 |
| HR0 | | | | | | | | 4.5571 | 4.5594 |
| HU1 | | 3.2408 | 3.5625 | 3.0743 | 3.1165 | 2.9292 | 2.9025 | 3.5015 | 3.6050 |
| HU2 | | 2.8704 | 3.3776 | 2.8398 | 2.7161 | 2.8600 | 2.7622 | 3.0212 | 2.9287 |
| HU3 | | 3.1343 | 3.7639 | 3.0206 | 2.9321 | 2.9121 | 2.8721 | 3.1752 | 3.1445 |

| P9010 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 4.0006 | 3.9440 | 3.8432 | 3.8547 | 3.5977 | 3.4510 | 3.5672 | 3.7134 | |
| IS0 | 2.6969 | 2.7224 | 2.8003 | 2.9866 | 2.9604 | 3.0325 | 2.8493 | 2.5940 | 2.6292 |
| ITC | 3.7725 | 3.6015 | 3.5849 | 3.8044 | 3.5680 | 3.5185 | 3.6784 | 3.6012 | 3.6692 |
| ITF | 4.6137 | 4.4652 | 4.6534 | 4.3572 | 4.0876 | 4.2507 | 4.1902 | 4.6819 | 4.9090 |
| ITG | 5.4913 | 4.9655 | 4.8593 | 4.4638 | 4.2011 | 4.5747 | 4.5475 | 5.7401 | 4.9654 |
| ITH_ITD | 3.3736 | 3.3460 | 3.4286 | 3.3944 | 3.3263 | 3.4232 | 3.2530 | 3.3575 | 3.4120 |
| ITI_ITE | 3.9662 | 3.8077 | 3.9125 | 3.9145 | 3.6968 | 3.8552 | 3.7298 | 3.8422 | 3.9505 |
| LT0 | | 5.3950 | 5.2782 | 4.7535 | 4.5433 | 4.8127 | 5.7441 | 4.8165 | 4.4261 |
| LU0 | 3.2782 | 3.3142 | 3.4324 | 3.4384 | 3.3229 | 3.5324 | 3.3831 | 3.2731 | 3.4212 |
| LV0 | | 4.8750 | 5.4027 | 5.0974 | 5.7487 | 5.6913 | 5.3134 | 5.2389 | 5.0708 |
| MT0 | | | | | | 3.4295 | 3.4599 | 3.3812 | 3.2858 |
| NL | | 2.9234 | 2.9135 | 2.9504 | 3.0196 | 3.0459 | 2.9278 | 2.9763 | 2.8774 |
| NO0 | 2.7065 | 2.7156 | 2.7965 | 2.8515 | 2.8015 | 2.8139 | 2.7285 | 2.6818 | 2.6293 |
| PL1 | | 6.1006 | 5.4763 | 4.9527 | 4.8001 | 4.4626 | 4.6191 | 4.3830 | 4.3178 |
| PL2 | | 4.7608 | 4.3770 | 4.0473 | 3.8861 | 3.8301 | 3.6635 | 4.0644 | 3.7138 |
| PL3 | | 4.8384 | 4.1369 | 3.9052 | 3.8988 | 3.8160 | 3.8025 | 3.9156 | 4.0633 |
| PL4 | | 4.5729 | 3.9785 | 4.1388 | 3.8884 | 3.9404 | 3.8668 | 3.5882 | 3.7680 |
| PL5 | | 5.5952 | 5.1952 | 4.4360 | 3.9704 | 3.8774 | 4.0711 | 3.7203 | 4.2195 |
| PL6 | | 5.0565 | 4.4885 | 3.8922 | 3.8058 | 3.7345 | 3.6828 | 3.5441 | 3.7135 |
| PT | 5.3909 | 5.4792 | 5.1383 | 5.2335 | 4.8529 | 4.6468 | 4.5410 | 4.5713 | 4.6109 |
| RO1 | | | | | | 4.7376 | 4.4089 | 4.6389 | 4.5142 |
| RO2 | | | | | | 6.3118 | 5.5232 | 5.8542 | 6.7082 |
| RO3 | | | | | | 5.4080 | 4.3870 | 4.7033 | 4.7120 |
| RO4 | | | | | | 5.4220 | 5.2449 | 5.6535 | 6.4900 |
| SE1 | | | | | 2.9660 | 3.0820 | 3.0409 | 3.1343 | 3.0334 |
| SE2 | | | | | 2.7772 | 2.8615 | 2.8409 | 2.9263 | 2.9837 |
| SE3 | | | | | 2.5365 | 2.7678 | 2.7385 | 2.7698 | 2.9150 |
| SI0 | | 2.9760 | 2.9223 | 2.8901 | 2.9173 | 2.7962 | 2.9788 | 3.0556 | 3.0147 |
| SK0 | | 3.1199 | 2.9816 | 2.8171 | 2.7955 | 3.0600 | 3.1219 | 3.1374 | 3.1844 |
| UKC | | | | | | | 3.6641 | 3.9997 | 3.4406 |
| UKD | | | | | | | 4.0188 | 3.7316 | 3.6499 |
| UKE | | | | | | | 4.1761 | 3.6585 | 3.6435 |
| UKF | | | | | | | 4.1312 | 3.4221 | 3.5409 |
| UKG | | | | | | | 4.0975 | 3.7999 | 3.7880 |
| UKH | | | | | | | 4.3509 | 3.7359 | 3.9050 |
| UKI | | | | | | | 5.5632 | 5.4649 | 4.8018 |
| UKJ | | | | | | | 4.1799 | 4.1935 | 3.7844 |
| UKK | | | | | | | 3.4638 | 3.4671 | 3.5605 |
| UKL | | | | | | | 3.9518 | 3.8242 | 3.3301 |
| UKM | | | | | | | 3.7928 | 3.9066 | 3.8534 |
| UKN | | | | | | | 3.5740 | 3.1877 | 3.3643 |

| P5010 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | 1.8602 | 1.8236 | 1.9049 | 1.8815 | 1.8730 | 1.8510 | 1.8548 | 1.9226 | 2.0469 |
| AT2 | 1.7830 | 1.7438 | 1.7009 | 1.7235 | 1.6745 | 1.7822 | 1.8500 | 1.7489 | 1.7408 |
| AT3 | 1.7478 | 1.6891 | 1.6928 | 1.6488 | 1.7360 | 1.6439 | 1.6460 | 1.6829 | 1.7615 |
| BE1 | 1.9404 | 1.8476 | 1.9886 | 1.9094 | 1.8668 | 2.0524 | 2.0224 | 1.9492 | |
| BE2 | 1.7961 | 1.7873 | 1.8343 | 1.8173 | 1.7860 | 1.7521 | 1.8053 | 1.7457 | |
| BE3 | 1.8725 | 1.8355 | 1.8290 | 1.8435 | 1.8720 | 1.8549 | 1.8658 | 1.8780 | |
| BG3 | | | | | 2.4429 | 2.4204 | 2.4635 | 2.4915 | 2.6765 |
| BG4 | | | | | 2.3101 | 2.1930 | 2.2098 | 2.4345 | 2.3202 |
| CH0 | | | | | 1.9927 | 1.9111 | 1.9190 | 1.9081 | 1.9798 |
| CY0 | | 1.9397 | 1.9220 | 1.9485 | 1.8916 | 1.9117 | 1.9152 | 1.8829 | 1.8790 |
| CZ0 | | 1.6961 | 1.6595 | 1.6508 | 1.6311 | 1.6016 | 1.6184 | 1.6538 | 1.6503 |
| DE1 | | 1.8436 | 1.7779 | | | | | | |
| DE2 | | 1.7277 | 1.8322 | | | | | | |
| DEA | | 1.8088 | 1.7728 | | | | | | |
| DECE | | 1.7879 | 1.8457 | | | | | | |
| DENE | | 1.7717 | 1.7915 | | | | | | |
| DENW | | 1.7614 | 1.7753 | | | | | | |
| DK0 | 1.7127 | 1.7315 | 1.7229 | 1.7415 | 1.7572 | 1.8009 | 1.8377 | 1.8081 | 1.8231 |
| EE0 | 2.2711 | 2.0987 | 2.0708 | 2.0717 | 2.0712 | 2.0054 | 1.9571 | 2.1038 | 2.0864 |
| EL1 | 2.1338 | 2.0864 | 2.2297 | 2.2055 | 2.1915 | 2.1742 | 2.1627 | 2.1991 | 2.6935 |
| EL2 | 2.2684 | 2.2515 | 2.3073 | 2.2321 | 2.0938 | 2.2186 | 2.1438 | 2.0524 | 2.6446 |
| EL3 | 2.1241 | 2.0567 | 2.1265 | 2.1254 | 2.2085 | 2.0601 | 2.3000 | 2.4019 | 2.5442 |
| EL4 | 2.1202 | 2.4469 | 1.9863 | 2.1785 | 2.0584 | 2.0356 | 1.9108 | 2.2080 | 2.5085 |
| ES1 | 2.0963 | 2.0489 | 1.9891 | 2.0607 | 2.0452 | 2.0824 | 2.2238 | 2.3454 | 2.1891 |
| ES2 | 2.0699 | 2.2063 | 2.1399 | 2.2079 | 2.1479 | 2.0842 | 2.4003 | 2.5406 | 2.6007 |
| ES3 | 1.9647 | 2.1322 | 2.1495 | 2.2769 | 2.2698 | 2.3949 | 2.3255 | 2.4502 | 2.6241 |
| ES4 | 2.0498 | 2.2494 | 2.2162 | 2.0908 | 2.0155 | 2.3259 | 2.6955 | 2.5821 | 2.5799 |
| ES5 | 2.1585 | 2.1338 | 2.0888 | 2.0580 | 2.1803 | 2.2831 | 2.4015 | 2.3618 | 2.7429 |
| ES6 | 2.2587 | 2.1612 | 2.2357 | 2.1480 | 2.3927 | 2.7841 | 2.8008 | 3.4553 | 2.4650 |
| ES7 | 2.1032 | 2.3702 | 2.1705 | 2.2936 | 2.3802 | 3.1636 | 2.7123 | 2.4101 | 2.5337 |
| FI | 1.6998 | 1.7279 | 1.7597 | 1.7749 | 1.8145 | 1.8141 | 1.7832 | 1.7912 | 1.8004 |
| FR1 | 1.9900 | 1.9725 | 2.0233 | 1.9495 | 1.9482 | 1.9753 | 2.0222 | 2.1722 | 2.1958 |
| FR2 | 1.7460 | 1.6377 | 1.6575 | 1.7132 | 1.6880 | 1.6836 | 1.7299 | 1.7154 | 1.6895 |
| FR3 | 1.8265 | 1.7227 | 1.7281 | 1.8796 | 1.6585 | 1.7494 | 1.7880 | 1.7132 | 1.7451 |
| FR4 | 1.7687 | 1.7473 | 1.7037 | 1.7535 | 1.7126 | 1.8338 | 1.8186 | 1.7491 | 1.8743 |
| FR5 | 1.7322 | 1.6783 | 1.6962 | 1.6261 | 1.6665 | 1.6643 | 1.7226 | 1.7065 | 1.7698 |
| FR6 | 1.7412 | 1.7921 | 1.8740 | 1.7733 | 1.7236 | 1.8174 | 1.7771 | 1.8165 | 1.8181 |
| FR7 | 1.7808 | 1.7645 | 1.6831 | 1.8138 | 1.7284 | 1.7115 | 1.7278 | 1.7774 | 1.7352 |
| FR8 | 1.9025 | 1.8427 | 1.9813 | 1.9591 | 1.8926 | 1.9132 | 1.9691 | 1.8699 | 1.8270 |
| HR0 | | | | | | | | 2.3458 | 2.3930 |
| HU1 | | 1.7709 | 1.8725 | 1.7338 | 1.7874 | 1.7471 | 1.7471 | 1.8829 | 1.8624 |
| HU2 | | 1.7404 | 1.8797 | 1.8072 | 1.6940 | 1.7626 | 1.7362 | 1.7899 | 1.8291 |
| HU3 | | 1.8487 | 2.0606 | 1.7891 | 1.7271 | 1.7388 | 1.7284 | 1.7642 | 1.7971 |

| P5010 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 2.0978 | 2.0776 | 1.9536 | 1.9462 | 1.8947 | 1.8582 | 1.8311 | 1.8694 | |
| IS0 | 1.6688 | 1.6529 | 1.6517 | 1.6737 | 1.6670 | 1.6712 | 1.6471 | 1.6207 | 1.5835 |
| ITC | 1.9917 | 1.9503 | 1.9834 | 2.0024 | 1.9474 | 1.9302 | 2.0015 | 2.0045 | 1.9823 |
| ITF | 2.2966 | 2.1734 | 2.1765 | 2.1208 | 2.0888 | 2.1487 | 2.1661 | 2.4516 | 2.5325 |
| ITG | 2.5173 | 2.2642 | 2.3202 | 2.2050 | 2.0461 | 2.2690 | 2.2660 | 2.9460 | 2.4095 |
| ITH_ITD | 1.8906 | 1.8775 | 1.9101 | 1.9182 | 1.8747 | 1.8865 | 1.8701 | 1.8575 | 1.9145 |
| ITI_ITE | 2.0081 | 1.9954 | 1.9944 | 2.0676 | 2.0230 | 1.9973 | 1.9673 | 2.0532 | 2.0730 |
| LT0 | | 2.3598 | 2.3502 | 2.2250 | 2.2445 | 2.1991 | 2.4803 | 2.2961 | 2.1113 |
| LU0 | 1.7965 | 1.8492 | 1.8699 | 1.8356 | 1.8152 | 1.9047 | 1.8750 | 1.7801 | 1.8581 |
| LV0 | | 2.2348 | 2.3520 | 2.2742 | 2.5740 | 2.5751 | 2.3724 | 2.3634 | 2.2788 |
| MT0 | | | | | | 1.8638 | 1.8617 | 1.8893 | 1.8709 |
| NL | | 1.7052 | 1.6622 | 1.6812 | 1.6936 | 1.7256 | 1.6781 | 1.7123 | 1.6712 |
| NO0 | 1.7140 | 1.7405 | 1.7584 | 1.8114 | 1.7505 | 1.7601 | 1.7297 | 1.6991 | 1.6749 |
| PL1 | | 2.4801 | 2.2297 | 2.0783 | 1.9686 | 1.9716 | 2.0673 | 2.0353 | 1.9971 |
| PL2 | | 2.3459 | 2.1595 | 2.0659 | 2.0135 | 2.1064 | 2.0060 | 2.1572 | 2.0590 |
| PL3 | | 2.3261 | 2.0909 | 1.9974 | 2.0430 | 1.9816 | 1.9030 | 1.9245 | 2.0003 |
| PL4 | | 2.2496 | 2.0179 | 2.0500 | 1.9866 | 2.0597 | 2.0608 | 2.0278 | 1.9515 |
| PL5 | | 2.5913 | 2.4703 | 2.2649 | 2.0226 | 1.9826 | 2.1270 | 1.9496 | 2.1260 |
| PL6 | | 2.4271 | 2.2719 | 2.0489 | 1.9006 | 1.9708 | 1.9360 | 1.9234 | 1.9911 |
| PT | 2.2306 | 2.2210 | 2.1082 | 2.1326 | 2.1116 | 2.0927 | 2.0769 | 2.0827 | 2.1161 |
| RO1 | | | | | | 2.5285 | 2.4196 | 2.4912 | 2.4315 |
| RO2 | | | | | | 2.9321 | 2.5788 | 2.6874 | 2.8962 |
| RO3 | | | | | | 2.4004 | 2.1528 | 2.3406 | 2.2450 |
| RO4 | | | | | | 2.6765 | 2.5591 | 2.7442 | 3.1781 |
| SE1 | | | | | 1.8080 | 1.8509 | 1.8386 | 1.8644 | 1.8149 |
| SE2 | | | | | 1.7799 | 1.8207 | 1.8185 | 1.8403 | 1.9003 |
| SE3 | | | | | 1.6898 | 1.7663 | 1.7608 | 1.7749 | 1.7990 |
| SI0 | | 1.7897 | 1.7581 | 1.7471 | 1.7806 | 1.7355 | 1.7952 | 1.8662 | 1.8365 |
| SK0 | | 1.8432 | 1.7495 | 1.6884 | 1.7033 | 1.7420 | 1.7818 | 1.8104 | 1.8351 |
| UKC | | | | | | | 1.7955 | 1.9308 | 1.8940 |
| UKD | | | | | | | 2.0842 | 1.8848 | 1.9274 |
| UKE | | | | | | | 2.0701 | 1.8918 | 1.8924 |
| UKF | | | | | | | 2.1443 | 1.7913 | 1.9144 |
| UKG | | | | | | | 2.0590 | 1.9229 | 1.8913 |
| UKH | | | | | | | 2.0890 | 1.9676 | 1.9259 |
| UKI | | | | | | | 2.4902 | 2.3648 | 2.1346 |
| UKJ | | | | | | | 2.0230 | 2.1124 | 1.8716 |
| UKK | | | | | | | 1.8893 | 1.8991 | 1.7757 |
| UKL | | | | | | | 2.0012 | 1.8067 | 1.8063 |
| UKM | | | | | | | 1.9882 | 1.9308 | 2.0668 |
| UKN | | | | | | | 1.8997 | 1.8790 | 1.8250 |

| P9050 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AT1 | 1.7584 | 1.7736 | 1.7798 | 1.7807 | 1.7898 | 1.7461 | 1.9009 | 1.8100 | 1.9238 |
| AT2 | 1.6191 | 1.7485 | 1.6547 | 1.6680 | 1.7283 | 1.6404 | 1.6523 | 1.6712 | 1.8261 |
| AT3 | 1.7014 | 1.6867 | 1.6750 | 1.7228 | 1.7219 | 1.7306 | 1.7115 | 1.6781 | 1.7579 |
| BE1 | 2.2327 | 2.1709 | 2.3973 | 2.3761 | 2.3054 | 2.2142 | 2.3735 | 2.3270 | |
| BE2 | 1.6610 | 1.6197 | 1.6463 | 1.6092 | 1.6107 | 1.6133 | 1.6353 | 1.6347 | |
| BE3 | 1.6306 | 1.7131 | 1.7612 | 1.7665 | 1.7301 | 1.7205 | 1.7218 | 1.6922 | |
| BG3 | | | | | 2.1359 | 2.0572 | 2.0702 | 2.0340 | 1.8917 |
| BG4 | | | | | 2.1141 | 2.0298 | 1.9797 | 2.0547 | 1.9629 |
| CH0 | | | | | 1.9351 | 1.8638 | 1.8272 | 1.8333 | 1.8301 |
| CY0 | | 1.8679 | 1.8326 | 1.8110 | 1.8423 | 1.8710 | 1.9117 | 1.9347 | 1.9859 |
| CZ0 | | 1.7668 | 1.7163 | 1.7495 | 1.7045 | 1.7009 | 1.7253 | 1.7572 | 1.7388 |
| DE1 | | 1.6872 | 1.7009 | | | | | | |
| DE2 | | 1.7493 | 1.7618 | | | | | | |
| DEA | | 1.7205 | 1.7162 | | | | | | |
| DECE | | 1.7466 | 1.7338 | | | | | | |
| DENE | | 1.5970 | 1.5857 | | | | | | |
| DENW | | 1.6499 | 1.6975 | | | | | | |
| DK0 | 1.5676 | 1.5660 | 1.5562 | 1.5823 | 1.5777 | 1.5663 | 1.6003 | 1.6581 | 1.6632 |
| EE0 | 2.3762 | 2.1696 | 2.0995 | 2.0764 | 1.9775 | 2.0274 | 2.0827 | 2.0617 | 2.1028 |
| EL1 | 2.0469 | 2.0222 | 2.0197 | 2.0552 | 1.9656 | 1.9506 | 1.8799 | 1.9721 | 1.7899 |
| EL2 | 2.0180 | 2.1255 | 2.0880 | 1.9590 | 1.9808 | 1.9263 | 1.9504 | 1.9497 | 1.9227 |
| EL3 | 1.9219 | 2.0516 | 1.9925 | 2.0215 | 1.9268 | 2.0710 | 2.0263 | 1.9675 | 1.9254 |
| EL4 | 1.9169 | 1.8354 | 2.0299 | 1.9325 | 1.8312 | 1.8413 | 1.8621 | 1.8187 | 1.8654 |
| ES1 | 1.7717 | 1.9332 | 1.8899 | 1.9243 | 1.7979 | 1.8962 | 1.9325 | 1.9659 | 2.0407 |
| ES2 | 1.7186 | 1.7983 | 1.7565 | 1.7032 | 1.7432 | 1.8028 | 1.8524 | 1.8657 | 1.9424 |
| ES3 | 1.7723 | 2.0334 | 1.9873 | 1.9586 | 1.9281 | 1.9671 | 2.0483 | 2.0446 | 2.1352 |
| ES4 | 2.0060 | 2.1375 | 1.9773 | 2.0218 | 2.0168 | 1.9936 | 2.0958 | 2.2214 | 2.1529 |
| ES5 | 1.8531 | 1.8791 | 1.8532 | 1.8994 | 1.9406 | 1.9174 | 2.0166 | 1.9948 | 1.9903 |
| ES6 | 1.9314 | 1.9987 | 2.0012 | 2.0464 | 1.9858 | 2.0034 | 2.1401 | 2.1490 | 2.1741 |
| ES7 | 1.8601 | 2.0841 | 2.0087 | 1.9368 | 2.0262 | 2.1194 | 2.0117 | 2.3701 | 2.4369 |
| FI | 1.6776 | 1.6823 | 1.6668 | 1.7011 | 1.7045 | 1.6879 | 1.6705 | 1.7041 | 1.7092 |
| FR1 | 1.8843 | 1.9189 | 1.8495 | 1.8893 | 1.9637 | 1.8858 | 1.9185 | 2.0335 | 1.9117 |
| FR2 | 1.7399 | 1.7400 | 1.7253 | 1.7354 | 1.8181 | 1.7849 | 1.8116 | 1.8015 | 1.7578 |
| FR3 | 1.8308 | 1.8110 | 1.7227 | 1.6278 | 1.7747 | 1.7267 | 1.8239 | 1.8940 | 1.7517 |
| FR4 | 1.6912 | 1.6781 | 1.6458 | 1.7034 | 1.7808 | 1.8030 | 1.8031 | 1.8090 | 1.7803 |
| FR5 | 1.6896 | 1.6505 | 1.7213 | 1.7092 | 1.8704 | 1.8247 | 1.7915 | 1.8219 | 1.7875 |
| FR6 | 1.8443 | 1.9830 | 1.8233 | 1.8335 | 2.0029 | 1.8336 | 1.8256 | 1.9351 | 1.9441 |
| FR7 | 1.8123 | 1.8237 | 1.7669 | 1.6976 | 2.0209 | 1.9116 | 1.9189 | 1.8686 | 1.8908 |
| FR8 | 1.8910 | 1.8636 | 1.7551 | 1.7497 | 1.8337 | 1.8998 | 1.8755 | 1.9631 | 1.8826 |
| HR0 | | | | | | | | 1.9426 | 1.9053 |
| HU1 | | 1.8300 | 1.9025 | 1.7731 | 1.7436 | 1.6766 | 1.6613 | 1.8597 | 1.9357 |
| HU2 | | 1.6492 | 1.7969 | 1.5714 | 1.6033 | 1.6226 | 1.5909 | 1.6879 | 1.6012 |
| HU3 | | 1.6954 | 1.8266 | 1.6883 | 1.6977 | 1.6748 | 1.6617 | 1.7997 | 1.7498 |

| P9050 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IE0 | 1.9071 | 1.8983 | 1.9672 | 1.9806 | 1.8988 | 1.8572 | 1.9482 | 1.9864 | |
| IS0 | 1.6161 | 1.6471 | 1.6953 | 1.7845 | 1.7758 | 1.8146 | 1.7298 | 1.6005 | 1.6604 |
| ITC | 1.8941 | 1.8466 | 1.8075 | 1.8999 | 1.8321 | 1.8229 | 1.8378 | 1.7965 | 1.8510 |
| ITF | 2.0089 | 2.0545 | 2.1380 | 2.0545 | 1.9569 | 1.9782 | 1.9344 | 1.9097 | 1.9384 |
| ITG | 2.1814 | 2.1931 | 2.0943 | 2.0243 | 2.0532 | 2.0162 | 2.0068 | 1.9484 | 2.0608 |
| ITH_ITD | 1.7844 | 1.7822 | 1.7950 | 1.7696 | 1.7743 | 1.8146 | 1.7395 | 1.8075 | 1.7822 |
| ITI_ITE | 1.9751 | 1.9083 | 1.9617 | 1.8932 | 1.8274 | 1.9302 | 1.8959 | 1.8713 | 1.9057 |
| LT0 | | 2.2862 | 2.2458 | 2.1364 | 2.0242 | 2.1884 | 2.3159 | 2.0977 | 2.0964 |
| LU0 | 1.8248 | 1.7922 | 1.8356 | 1.8732 | 1.8306 | 1.8546 | 1.8043 | 1.8388 | 1.8412 |
| LV0 | | 2.1814 | 2.2971 | 2.2414 | 2.2334 | 2.2101 | 2.2397 | 2.2167 | 2.2252 |
| MT0 | | | | | | 1.8401 | 1.8585 | 1.7897 | 1.7563 |
| NL | | 1.7144 | 1.7527 | 1.7549 | 1.7829 | 1.7651 | 1.7447 | 1.7382 | 1.7218 |
| NO0 | 1.5791 | 1.5602 | 1.5904 | 1.5742 | 1.6004 | 1.5988 | 1.5774 | 1.5783 | 1.5698 |
| PL1 | | 2.4599 | 2.4561 | 2.3831 | 2.4383 | 2.2634 | 2.2343 | 2.1535 | 2.1620 |
| PL2 | | 2.0294 | 2.0269 | 1.9592 | 1.9301 | 1.8183 | 1.8263 | 1.8841 | 1.8037 |
| PL3 | | 2.0801 | 1.9785 | 1.9551 | 1.9084 | 1.9257 | 1.9982 | 2.0347 | 2.0313 |
| PL4 | | 2.0328 | 1.9716 | 2.0189 | 1.9574 | 1.9131 | 1.8763 | 1.7695 | 1.9308 |
| PL5 | | 2.1593 | 2.1031 | 1.9586 | 1.9630 | 1.9557 | 1.9140 | 1.9082 | 1.9847 |
| PL6 | | 2.0833 | 1.9757 | 1.8997 | 2.0024 | 1.8949 | 1.9023 | 1.8427 | 1.8650 |
| PT | 2.4168 | 2.4670 | 2.4373 | 2.4540 | 2.2983 | 2.2205 | 2.1865 | 2.1948 | 2.1789 |
| RO1 | | | | | | 1.8737 | 1.8221 | 1.8621 | 1.8565 |
| RO2 | | | | | | 2.1526 | 2.1418 | 2.1784 | 2.3162 |
| RO3 | | | | | | 2.2530 | 2.0378 | 2.0094 | 2.0989 |
| RO4 | | | | | | 2.0258 | 2.0495 | 2.0602 | 2.0421 |
| SE1 | | | | | 1.6405 | 1.6651 | 1.6539 | 1.6812 | 1.6714 |
| SE2 | | | | | 1.5603 | 1.5716 | 1.5622 | 1.5902 | 1.5701 |
| SE3 | | | | | 1.5011 | 1.5670 | 1.5553 | 1.5605 | 1.6203 |
| SI0 | | 1.6629 | 1.6622 | 1.6543 | 1.6384 | 1.6111 | 1.6593 | 1.6373 | 1.6415 |
| SK0 | | 1.6927 | 1.7043 | 1.6685 | 1.6413 | 1.7566 | 1.7521 | 1.7330 | 1.7353 |
| UKC | | | | | | | 2.0407 | 2.0715 | 1.8166 |
| UKD | | | | | | | 1.9282 | 1.9799 | 1.8937 |
| UKE | | | | | | | 2.0174 | 1.9339 | 1.9254 |
| UKF | | | | | | | 1.9266 | 1.9104 | 1.8496 |
| UKG | | | | | | | 1.9900 | 1.9761 | 2.0029 |
| UKH | | | | | | | 2.0827 | 1.8987 | 2.0276 |
| UKI | | | | | | | 2.2340 | 2.3109 | 2.2495 |
| UKJ | | | | | | | 2.0662 | 1.9852 | 2.0221 |
| UKK | | | | | | | 1.8334 | 1.8257 | 2.0051 |
| UKL | | | | | | | 1.9747 | 2.1167 | 1.8436 |
| UKM | | | | | | | 1.9077 | 2.0233 | 1.8645 |
| UKN | | | | | | | 1.8813 | 1.6965 | 1.8434 |

Appendix 6

Variables definition, sources and descriptive statistics

| Label | Definition | Source |
|--------------|--|---|
| GDP pc | GDP per capita: Gross Domestic Product, deflated to 2005 constant price euros, over total population | Cambridge Econometrics |
| % Agricult | Agricultural Share: Proportion of employed persons working in Agriculture over total Employed persons | Cambridge Econometrics |
| % Construc | Construction Share: Proportion of employed persons working in Construction over total Employed persons | Cambridge Econometrics |
| % Trad Serv | Tradable Services Share: Proportion of employed persons working in Wholesale, retail, transport & distribution, communications, hotels & catering over total Employed persons | Cambridge Econometrics |
| % Finan Serv | Financial Services Share: Proportion of employed persons working in Financial & business services over total Employed persons | Cambridge Econometrics |
| Empl S&T | Persons with tertiary education (ISCED) and/or employed in science and technology | Eurostat |
| Density | Population density | Eurostat |
| Fam_1 | Family Structure. Factor 1 out of a principal components study built using six variables. Cross section information at the national level. | Berthoud and Iacovou (2004) |
| Fam_2 | Family Structure. Factor 2 out of a principal components study built using six variables. Cross section information at the national level. | Berthoud and Iacovou (2004) |
| Christ. | Christianity: proportion of population following any kind of Christian group (Catholic Church, Protestantism, Orthodox Church ...). Cross section information at the national level. | Wikipedia. http://en.wikipedia.org/wiki/Christianity_by_country#By_country |
| Unemp | Unemployment rate: porportion of unemployment. Unemployment levels computed as the difference between active population and employed persons | Cambridge Econometrics |

Descriptive Statistics

| | Mean | Std. Dev. | | | Min | Max | Obs | Regions | Av |
|--------------|-------|-----------|---------|--------|--------|--------|------|---------|--------|
| | | overall | between | within | | | | | Period |
| Gini Index | 0.302 | 0.040 | 0.036 | 0.020 | 0.214 | 0.465 | 942 | 78 | 12.1 |
| p9010 | 3.947 | 0.885 | 0.807 | 0.441 | 2.536 | 8.128 | 942 | 78 | 12.1 |
| p5010 | 2.029 | 0.284 | 0.254 | 0.164 | 1.583 | 3.651 | 942 | 78 | 12.1 |
| p9050 | 1.927 | 0.207 | 0.185 | 0.103 | 1.501 | 3.218 | 942 | 78 | 12.1 |
| ln GDPpc | 2.712 | 0.801 | 0.788 | 0.172 | 0.519 | 4.255 | 1650 | 75 | 22.0 |
| % Agricult | 0.093 | 0.103 | 0.099 | 0.030 | 0.000 | 0.537 | 1650 | 75 | 22.0 |
| % Construc | 0.073 | 0.020 | 0.017 | 0.010 | 0.027 | 0.156 | 1650 | 75 | 22.0 |
| % Trad Serv | 0.256 | 0.049 | 0.046 | 0.016 | 0.120 | 0.425 | 1650 | 75 | 22.0 |
| % Finan Serv | 0.117 | 0.058 | 0.056 | 0.018 | 0.015 | 0.351 | 1650 | 75 | 22.0 |
| Empl S&T | 957.9 | 724.3 | 697.3 | 208.8 | 41.0 | 4699.0 | 1203 | 78 | 15.4 |
| Density | 349.1 | 921.5 | 864.8 | 52.1 | 2.5 | 7131.1 | 1461 | 78 | 18.7 |
| Fam_1 | 2.799 | 0.569 | 0.573 | 0 | 2.04 | 3.98 | 1474 | 67 | 22.0 |
| Fam_2 | 0.651 | 0.196 | 0.198 | 0 | 0.19 | 0.99 | 1474 | 67 | 22.0 |
| Christ. | 0.747 | 0.168 | 0.170 | 0 | 0.207 | 0.98 | 1474 | 67 | 22.0 |
| Unemp | 0.075 | 0.114 | 0.106 | 0.042 | -0.771 | 0.312 | 1650 | 75 | 22.0 |

Correlation

| | Gini Index | p9010 | p5010 | p9050 | ln GDPpc | % Agricult | % Construc | % Trad Serv | % Finan Serv | Empl S&T | Density | Fam_1 | Fam_2 | Christ. |
|--------------|------------|--------|--------|--------|----------|------------|------------|-------------|--------------|----------|---------|-------|-------|---------|
| p9010 | 0.877 | | | | | | | | | | | | | |
| p5010 | 0.716 | 0.931 | | | | | | | | | | | | |
| p9050 | 0.918 | 0.874 | 0.641 | | | | | | | | | | | |
| ln GDPpc | -0.215 | -0.316 | -0.300 | -0.259 | | | | | | | | | | |
| % Agricult | 0.303 | 0.439 | 0.444 | 0.314 | -0.601 | | | | | | | | | |
| % Construc | 0.110 | 0.226 | 0.253 | 0.148 | -0.166 | 0.130 | | | | | | | | |
| % Trad Serv | 0.309 | 0.362 | 0.396 | 0.257 | 0.064 | -0.028 | 0.254 | | | | | | | |
| % Finan Serv | -0.054 | -0.225 | -0.277 | -0.090 | 0.751 | -0.683 | -0.309 | 0.031 | | | | | | |
| Empl S&T | -0.076 | -0.132 | -0.131 | -0.099 | 0.246 | -0.304 | -0.127 | -0.061 | 0.392 | | | | | |
| Density | 0.284 | 0.110 | 0.024 | 0.218 | 0.355 | -0.257 | -0.383 | 0.031 | 0.571 | 0.003 | | | | |
| Fam_1 | 0.320 | 0.433 | 0.449 | 0.331 | -0.696 | 0.514 | 0.448 | 0.116 | -0.493 | -0.185 | -0.153 | | | |
| Fam_2 | -0.032 | 0.150 | 0.274 | -0.045 | -0.134 | 0.345 | 0.332 | 0.110 | -0.305 | 0.006 | -0.170 | 0.542 | | |
| Christ. | 0.169 | 0.290 | 0.363 | 0.134 | -0.252 | 0.529 | 0.240 | 0.083 | -0.385 | -0.323 | -0.147 | 0.597 | 0.589 | |
| Unemp | -0.013 | 0.136 | 0.196 | 0.017 | -0.486 | 0.206 | 0.095 | 0.030 | -0.593 | 0.096 | -0.623 | 0.182 | 0.113 | 0.017 |

Appendix 7

Table A7.1. Inequality regressions. Cross section and panel estimates. P9010

| | CS 1996 | CS 2000 | CS 2007 | CS 2011 | Between | Fixed Effects | Random Effects |
|-----------------------|-------------------------|--------------------------|---------------------------|-------------------------|---------------------------|--------------------------|---------------------------|
| ln GDPpc | -22.64*** (7.569) | -10.01 (6.624) | 0.0536 (1.339) | -0.650 (1.802) | 1.413 (1.353) | -2.445** (1.036) | -0.281 (0.829) |
| ln GDPpc ² | 3.424** (1.292) | 1.067 (1.093) | -0.0735 (0.251) | 0.262 (0.348) | -0.271 (0.262) | 0.195 (0.170) | 0.0205 (0.144) |
| % Agricult | 4.935** (1.927) | 4.716** (2.136) | 5.797*** (1.994) | 8.239*** (2.853) | 7.406*** (1.786) | 14.98*** (1.181) | 13.77*** (1.029) |
| % Construc | -3.180 (9.369) | 13.08* (7.664) | 18.30*** (4.077) | 20.30* (11.04) | 18.86*** (5.426) | -7.010*** (2.033) | -4.291** (1.859) |
| % Trad Serv | 6.538** (2.392) | 1.252 (1.877) | 2.396 (1.917) | 7.781*** (2.352) | 4.670** (1.920) | 10.08*** (1.927) | 7.798*** (1.331) |
| % Finan Serv | -1.440 (6.249) | 8.998* (4.897) | 7.384* (3.688) | 3.364 (5.006) | 5.877* (3.509) | 3.262** (1.636) | 2.588 (1.596) |
| Empl S&T | 0.000374 (0.000230) | 0.000517** (0.000190) | 0.000104 (9.98e-05) | -3.02e-05 (0.000120) | 2.17e-05 (0.000108) | 0.000134 (8.28e-05) | 2.83e-06 (6.87e-05) |
| Density | -3.22e-05 (0.000175) | 0.000243* (0.000127) | 0.000408*** (0.000100) | 0.00100 (0.000667) | 0.000431*** (0.000104) | 0.00168*** (0.000280) | 0.000363*** (8.02e-05) |
| Fam_1 | 0.451 (0.780) | -1.885** (0.702) | 0.0816 (0.319) | 0.774* (0.403) | 0.142 (0.320) | | 0.0306 (0.243) |
| Fam_2 | -3.787*** (0.901) | -4.130*** (0.910) | -0.824 (0.554) | -1.107 (0.885) | -1.356** (0.522) | | -0.259 (0.508) |
| Christ. | 0.412 (2.035) | 5.966*** (1.970) | 0.979 (0.620) | 0.254 (0.783) | 0.762 (0.632) | | -0.906 (0.576) |
| Unemp | 0.557 (1.437) | -0.740 (1.621) | 1.839* (1.034) | 4.572*** (1.400) | 2.685** (1.010) | -0.764 (0.493) | 1.420*** (0.423) |
| Constant | 39.76*** (11.60) | 24.36** (10.79) | -0.141 (1.889) | -3.290 (2.490) | -2.201 (1.902) | 5.162*** (1.531) | 2.147 (1.391) |
| Observations | 36 | 41 | 53 | 51 | 699 | 699 | 699 |
| Regions | | | | | 67 | 67 | 67 |
| R-squared | 0.896 | 0.818 | 0.659 | 0.659 | 0.637 | 0.449 | . |

Table A7.2. Inequality regressions. Cross section and panel estimates. P5010

| | CS 1996 | CS 2000 | CS 2007 | CS 2011 | Between | Fixed Effects | Random Effects |
|-----------------------|------------------------|--------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|
| ln GDPpc | -4.269 (2.974) | -2.285 (1.964) | -0.373 (0.424) | 0.0493 (0.710) | 0.119 (0.392) | -0.812** (0.390) | 0.0409 (0.275) |
| ln GDPpc ² | 0.692 (0.508) | 0.272 (0.324) | 0.0487 (0.0793) | 0.0365 (0.137) | -0.0192 (0.0759) | 0.0482 (0.0639) | -0.0200 (0.0488) |
| % Agricult | 1.849** (0.757) | 1.480** (0.633) | 1.106* (0.630) | 2.402** (1.124) | 1.803*** (0.518) | 4.958*** (0.445) | 3.869*** (0.348) |
| % Construc | -3.495 (3.681) | 1.323 (2.273) | 5.794*** (1.289) | 0.612 (4.348) | 5.249*** (1.573) | -1.773** (0.765) | -1.116* (0.657) |
| % Trad Serv | 2.758*** (0.940) | 0.960* (0.557) | 1.233** (0.606) | 2.344** (0.927) | 1.713*** (0.557) | 4.499*** (0.725) | 3.000*** (0.426) |
| % Finan Serv | -1.242 (2.455) | 1.115 (1.452) | 1.657 (1.166) | 0.190 (1.972) | 1.082 (1.017) | 2.024*** (0.616) | 1.203** (0.563) |
| Empl S&T | 2.67e-05 (9.05e-05) | 0.000131** (5.65e-05) | 1.86e-05 (3.15e-05) | -1.73e-05 (4.74e-05) | 1.32e-05 (3.12e-05) | 2.65e-05 (3.12e-05) | -1.13e-05 (2.29e-05) |
| Density | 1.33e-06 (6.86e-05) | 5.63e-05 (3.77e-05) | 9.15e-05*** (3.17e-05) | 0.000336 (0.000263) | 0.000119*** (3.00e-05) | 0.000341*** (0.000105) | 6.52e-05*** (2.46e-05) |
| Fam_1 | 0.456 (0.307) | -0.407* (0.208) | -0.00153 (0.101) | 0.206 (0.159) | 0.0295 (0.0927) | | -0.0206 (0.0754) |
| Fam_2 | -0.664* (0.354) | -1.020*** (0.270) | -0.0709 (0.175) | -0.0243 (0.349) | -0.195 (0.151) | | 0.140 (0.151) |
| Christ. | -0.393 (0.800) | 1.608** (0.584) | 0.292 (0.196) | 0.160 (0.308) | 0.302 (0.183) | | -0.156 (0.171) |
| Unemp | 0.445 (0.565) | 0.0764 (0.481) | 0.667** (0.327) | 1.040* (0.551) | 0.950*** (0.293) | -0.446** (0.186) | 0.348** (0.149) |
| Constant | 7.599 (4.557) | 6.208* (3.200) | 1.224** (0.597) | -0.108 (0.981) | 0.417 (0.551) | 2.231*** (0.576) | 1.012** (0.449) |
| Observations | 36 | 41 | 53 | 51 | 699 | 699 | 699 |
| Regions | | | | | 67 | 67 | 67 |
| R-squared | 0.835 | 0.777 | 0.647 | 0.588 | 0.653 | 0.362 | |

Table A7.3. Inequality regressions. Cross section and panel estimates. P9050

| | CS 1996 | CS 2000 | CS 2007 | CS 2011 | Between | Fixed Effects | Random Effects |
|-----------------------|-------------------------|--------------------------|---------------------------|------------------------|---------------------------|---------------------------|---------------------------|
| ln GDPpc | -6.956*** (2.472) | -3.141* (1.815) | 0.427 (0.422) | -0.216 (0.366) | 0.590 (0.377) | -0.454 (0.277) | -0.0856 (0.216) |
| ln GDPpc ² | 1.015** (0.422) | 0.331 (0.300) | -0.0895 (0.0789) | 0.0666 (0.0707) | -0.113 (0.0729) | 0.0524 (0.0453) | 0.0227 (0.0375) |
| % Agricult | 0.244 (0.629) | 0.733 (0.585) | 1.942*** (0.628) | 1.850*** (0.580) | 1.821*** (0.498) | 1.764*** (0.315) | 2.063*** (0.267) |
| % Construc | 2.038 (3.059) | 4.834** (2.100) | 3.644*** (1.284) | 8.552*** (2.245) | 3.888** (1.512) | -1.385** (0.543) | -0.477 (0.480) |
| % Trad Serv | 0.693 (0.781) | -0.117 (0.514) | 0.000262 (0.603) | 1.533*** (0.478) | 0.705 (0.535) | 0.450 (0.514) | 0.640* (0.349) |
| % Finan Serv | 0.0720 (2.040) | 3.125** (1.341) | 2.138* (1.161) | 1.408 (1.018) | 1.738* (0.978) | -0.454 (0.437) | -0.204 (0.412) |
| Empl S&T | 0.000154* (7.52e-05) | 0.000127** (5.22e-05) | 3.92e-05 (3.14e-05) | 4.16e-06 (2.45e-05) | -5.58e-07 (3.00e-05) | 2.54e-05 (2.21e-05) | 6.16e-07 (1.79e-05) |
| Density | -9.41e-06 (5.70e-05) | 6.12e-05* (3.48e-05) | 0.000124*** (3.16e-05) | 0.000163 (0.000136) | 9.51e-05*** (2.89e-05) | 0.000494*** (7.46e-05) | 0.000122*** (2.12e-05) |
| Fam_1 | -0.152 (0.255) | -0.514** (0.192) | 0.0508 (0.101) | 0.190** (0.0819) | 0.0696 (0.0891) | | 0.106* (0.0640) |
| Fam_2 | -1.209*** (0.294) | -1.086*** (0.249) | -0.321* (0.175) | -0.536*** (0.180) | -0.508*** (0.145) | | -0.366*** (0.135) |
| Christ. | 0.407 (0.664) | 1.330** (0.540) | 0.221 (0.195) | -0.00258 (0.159) | 0.0735 (0.176) | | -0.206 (0.153) |
| Unemp | -0.0951 (0.469) | -0.417 (0.444) | 0.274 (0.325) | 1.105*** (0.285) | 0.399 (0.281) | 0.0705 (0.132) | 0.497*** (0.109) |
| Constant | 13.96*** (3.787) | 8.595*** (2.956) | 0.520 (0.595) | 0.278 (0.506) | 0.386 (0.530) | 2.503*** (0.409) | 1.751*** (0.364) |
| Observations | 36 | 41 | 53 | 51 | 699 | 699 | 699 |
| Regions | | | | | 67 | 67 | 67 |
| R-squared | 0.787 | 0.817 | 0.554 | 0.659 | 0.546 | 0.261 | . |



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