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An Unemployment Insurance Scheme for the Euro Area

Mathias Dolls^{*}, Clemens Fuest[†], Dirk Neumann[‡], Andreas Peichl[§]

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Work in progress

Abstract

The Great Recession and the resulting European debt crisis revived a debate about deeper fiscal integration in the Eurozone. We discuss different alternatives how an unemployment insurance system for the euro area could be designed and run counterfactual simulations based on micro data to analyze the effectiveness of a basic scheme and a benefit extension program to act as an insurance device in the presence of asymmetric macroeconomic shocks. We find that a basic insurance scheme could be implemented with a relatively small annual budget of roughly 61 billion euros over the period 2008-2013. Net benefits would have stabilized incomes in particular in Cyprus, Estonia, Greece, Ireland, Portugal and Spain whereas Austria, Germany and the Netherlands would have been the largest net contributors.

JEL codes: F55, H23, J65 **Keywords:** European fiscal integration, redistribution, automatic stabilization

This paper uses EUROMOD version F6.0+. EUROMOD is maintained, developed and managed by the Institute for Social and Economic Research (ISER) at the University of Essex, in collaboration with national teams from the EU member states. EUROMOD is based on the EU-SILC database which is made available by EUROSTAT. We would like to thank all past and current members of the EUROMOD consortium for the construction and development of EUROMOD and the European Commission for providing financial support for it as well as seminar audiences in Canazei (IT9), Paris (OECD) and Tübingen for valuable comments. Johannes Braese, Christoph Wilhelm and Martin Ungerer provided excellent research assistance. All results and their interpretation presented in this paper are the authors' responsibility.

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1. Introduction

The Great Recession and the resulting European debt crisis revived a debate about deeper fiscal integration in the Economic and Monetary Union (EMU). Some observers argue that the ongoing economic crisis in the euro area (EA)¹ where some member states lost access to private capital markets and could not let their national automatic stabilizers work has shown that the European currency union will not survive unless it is complemented by a 'fiscal union'. Options discussed range from enforced budget rules to the development of an own 'fiscal capacity' for the EMU. In December 2012, the President of the European Council, Herman van Rompuy, argued: "An EMU fiscal capacity with a limited asymmetric shock absorption function could take the form of an insurance-type system between euro area countries. [...] The specific design of such a function could follow two broad approaches. The first would be a macroeconomic approach, where contributions and disbursements would be based on fluctuations in cyclical revenue and expenditure items.... The second could be based on a microeconomic approach, and be more directly linked to a specific public function sensitive to the economic cycle, such as unemployment insurance."² The European Commission built upon these initiatives when launching its official report entitled "A blueprint for a deep and genuine economic and monetary union - Launching a European Debate" (European Commission 2012).

Since then, the perspectives of a European fiscal union and different reform proposals have been analyzed and discussed in various studies (see e.g. Bargain et al. 2013, Dolls et al. 2013, Dullien 2013, Enderlein et al. 2013 and IMF 2013). The question of how to optimally design a (European) fiscal union has also gained renewed interest in the more theoretical literature (see e.g. Drèze and Durré 2013, Engler and Voigts 2013, Evers 2012, Farhi and Werning 2012). While the main argument in favor of integrated fiscal mechanisms in the EMU is that they should act as insurance devices in the presence of asymmetric macroeconomic shocks, the main concerns in the debate relate to negative incentive effects inducing national governments to refrain from structural reforms and permanent transfer flows within the currency union.

To the best of our knowledge, this is the first paper which investigates the economic effects of an unemployment insurance system for the euro area using micro data which enable us to take individual household heterogeneity across and within Eurozone countries into account. This is of particular importance when assessing the macroeconomic stabilization effect of such a scheme since households can differ significantly regarding their propensity to consume and hence to adjust their consumption expenditure after shocks in disposable income.

Our main results are as follows. We find that a significant unemployment insurance scheme for the euro area which provides a minimum level of income insurance (replacement rate 50 per cent, maximum benefit duration 12 months) could be

¹ In the following we equivalently use "EA", "EMU" and "Eurozone" to refer to the current member states of the European currency union and thus, only to those EMU members who have already introduced the Euro.

² 'Towards a genuine Economic and Monetary Union', Final Report, The President of the European Council, Brussels, 5 December 2012, p.11.

implemented with a relatively small budget. Over the period 2008-2013, the total volume would have been 365 billion euros, i.e. the average yearly benefits and contributions would have amounted to 61 billion euros. While the scheme analyzed in this study does not lead to permanent redistribution per se as only short-term unemployment is insured at the central level, our simulations show that (net) transfers from the euro area unemployment insurance scheme would have been unevenly distributed due a substantial divergence in unemployment rates within the Eurozone in recent years. Largest (net) contributors would have been Austria, Germany and the Netherlands with yearly contributions up to 0.6 per cent of GDP in the Netherlands in 2008. Households in Cyprus, Estonia, Greece, Ireland, Portugal and in particular Spain would have benefited most with yearly (net) benefits reaching their highest level in Spain in 2009 (1.4 per cent of GDP). The capacity of the basic UI scheme to provide income protection and hence automatic stabilization is limited by construction. Nevertheless, we find that household incomes would have been stabilized by a considerable degree, in particular in those countries most affected by rising unemployment. Our measure for automatic stabilization, the income stabilization coefficient, is close to 50 per cent in Greece, Ireland and Portugal in 2009, and in Italy in 2012. However, coverage rates of the euro area UI would have declined from 2009 onwards as the share of long-term unemployed got larger.

The reminder of this paper is structured as follows. The framework for our empirical analysis is described in section 2. The effectiveness of national unemployment insurance systems in the euro area to act as an automatic stabilizer as well as discretionary policy changes in that area implemented in recent year are thoroughly documented in section 3. Different alternatives how a supranational scheme for the euro area could be designed as well as their stabilization effect, the risk of permanent redistribution and moral hazard concerns are discussed in section 4. Results of our empirical analysis are presented in sections 5 and 6. Section 7 concludes.

2. Data and Methodology

2.1. Data: EU-SILC and EUROMOD

For our simulations, we rely on representative household micro data for the EA17 from 2008 covering income and population characteristics from 2007 and use the European taxbenefit calculator EUROMOD for counterfactual simulations. EUROMOD is a static taxbenefit calculator for the European Union countries which allows for comparative analysis of tax-benefit systems and their impact on the income distribution in a consistent way through a common framework. Most importantly, the micro data are harmonized across countries with common variable definitions. EUROMOD input-data are mainly based on the European Union Statistics on Income and Living Conditions (EU-SILC) released by Eurostat (c.f., Eurostat 2012). The simulated components include most direct taxes (especially income taxes on all sources of income including tax credits, payroll taxes and social insurance contributions) and benefits (e.g. welfare benefits, social assistance and some transfers based on previous contributions, e.g. unemployment benefits). Information on consumption is missing in the data; hence indirect taxes and taxes on corporate profits are not included in the model, likewise in-kind benefits. Also, EUROMOD assumes full benefit take-up and tax compliance focusing on the intended effects of tax-benefit systems.

The main stages of the simulations are as follows. First, a representative micro-data sample of households (including information on all gross income components as well as demographic characteristics that are relevant to determine taxes and benefits) and the respective tax benefit rules are read into the model. Subsequently, the model constructs corresponding assessment units (for instance the individual or household) for each tax and benefit instrument according to the underlying eligibility rules. On that basis, all taxes and benefits are simulated and disposable income is calculated. For more detailed information on the current version of EUROMOD and the underlying input data, see Sutherland and Figari (2013).

2.2 Simulation experiment

An important feature of EUROMOD is that it allows for counterfactual ex-ante simulations. In our empirical analysis, we introduce an unemployment insurance scheme for the euro area and ask the question of what would have happened if such a scheme had been created before the start of the recent crisis. In order to shed light on this question, we take our base year household micro data reflecting incomes, labor market status and socio-demographic characteristics from 2007 and simulate unemployment shocks as observed in the period 2008-2013. Given that there are no harmonized panel data available for the EA17 spanning such a recent time period, we create a sample of repeated cross-sections for each country reflecting changes in unemployment and incomes. For the simulation of entries into and exits out of unemployment, we need to make assumptions about the structure of the new unemployed and employed, respectively. One possibility is to assume that the structure of the new (un)employed is equal to the existing pool of (un)employed.³ Alternatively, one can assume that new (un)employed are similar to the total population⁴. We opt for the latter approach which seems to be the more realistic scenario in the period under consideration. In addition, we model changes in earnings along the intensive margin based on information about growth in nominal compensation per employee.

Note that in our simulations we do not account for behavioral responses such as migration, changes in hours worked or entries into and exits out of the labor force which are certainly all important channels. However, modelling all these responses would add considerable complexity to our analysis which instead focuses on the key economic effects of an unemployment insurance scheme for the euro area.

³ This can be modelled by reweighting the micro data (see Immervoll et al. 2006 and Dolls et al. 2012) or by estimating probabilities of becoming unemployment (Bell and Blanchflower 2010).

⁴ C.f., Peichl and Siegloch (2012).

2.3. Descriptive information

In this section we report descriptive information on gross income levels in the euro area in 2007 which is the base year of our simulations and show how per capita compensation has changed over the simulation period. We report this information at the overall EMU level and for individual countries. Column 1 of Table 1 shows the population share of each Eurozone country. Average monthly employment income (in 2007 EURO) which is the basis for contributions into and transfer payments out of the simulated euro area unemployment insurance scheme is reported in column 2. Growth in nominal compensation per employee (in percent) from 2007 to 2013 is reported in columns 3-9.

Table 1 reveals considerable differences across individual countries with respect to income levels in 2007. Average monthly employment income ranges from 3729 Euros in Luxembourg, 187 per cent of the EMU average of 1996 Euros, to a value of 493 Euros in Slovakia, roughly 25 per cent of the EMU average. However, one should note that these income levels are not adjusted for differences in purchasing power, which would render income differentials somewhat smaller.

The development of the tax base of the simulated euro area UI scheme depends on changes in earnings along the extensive and intensive margin. In our empirical analysis, we account for extensive margin changes by simulating (un)employment shocks such that the reported unemployment rate in a country in year t is precisely reflected in our micro data⁵. Intensive margin changes are taken into account by adjusting nominal earnings by their growth factors. Columns 3-9 show that growth in nominal compensation per employee differed significantly within the euro area leading rather to a divergence than to a convergence process in income levels. Those countries most affected by the recent crisis have seen largest losses in employment income, albeit at different points in time. Countries such as Estonia (in 2009) and Ireland (2009-2011) were affected early on in the crisis, whereas others in more recent years (Greece from 2010-2013, Portugal 2011-2012, Cyprus and Slovenia from 2012-2013). These income changes, together with changes in unemployment, do have an important impact on the stabilizing and redistributive effect of the euro area UI scheme analyzed below.

⁵ Changes in unemployment over the sample period are discussed in section 5.

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	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	POP	GI	$\Delta GI07$	$\Delta GI08$	$\Delta GI09$	$\Delta GI10$	ΔGI11	$\Delta GI12$	ΔGI13
EMU	1	1996	2.60	3.48	1.81	1.96	2.17	2.03	1.51
AT	0.027	2320	2.62	3.14	2.49	1.18	2.38	2.55	2.34
BE	0.033	2476	3.41	3.56	1.16	1.37	3.08	3.73	2.25
CY	0.002	1742	2.78	3.36	2.59	2.56	2.49	-0.95	-9.45
EE	0.004	636	25.02	9.67	-3.11	2.31	0.55	5.95	6.74
FI	0.018	2054	3.65	4.36	2.31	1.76	3.24	3.53	2.39
FR	0.188	1953	2.60	2.77	2.04	2.46	2.50	2.19	1.41
GE	0.279	2417	0.78	2.11	0.14	2.36	2.96	2.64	1.93
GR	0.03	1514	4.70	3.58	3.53	-2.57	-3.38	-4.21	-7.00
IE	0.012	2612	5.56	5.19	-1.06	-3.81	-0.12	0.78	0.00
IT	0.173	1844	2.27	3.81	1.71	2.79	1.29	0.99	1.32
LU	0.001	3729	3.70	3.37	1.78	2.64	2.38	2.01	0.83
MT	0.001	1219	3.07	4.21	3.23	1.55	0.63	2.18	2.05
NL	0.054	2379	3.44	3.25	2.52	1.49	1.59	1.87	-0.15
PT	0.028	1113	3.59	3.02	2.79	2.03	-0.57	-2.04	2.48
SI	0.05	1139	6.16	7.21	1.85	3.89	1.63	-0.97	-0.25
SK	0.014	493	8.73	7.01	2.48	5.11	1.97	2.79	2.03
SP	0.129	1507	4.68	6.86	4.16	0.42	1.33	0.24	1.02

Table 1: Average monthly gross income (2007 EUR) and growth in nominal compensation per employee (in per cent)

Note: POP, GI: Population share and gross income in 2007. Δ GI: Growth in nominal compensation per employee (in per cent). Source: Own calculations based on EUROMOD and European Commission (DG ECFIN), AMECO.

2.4 Automatic stabilization effects

A key argument of proponents of enhanced fiscal integration is an increase in macroeconomic stability, both at the level of individual countries and the Eurozone as a whole. Automatic fiscal stabilization is associated with the ability of taxes and transfers to automatically stabilize disposable income and consequently consumption in the event of macroeconomic shocks. This relies on a simple mechanism: in the presence of a given negative shock to gross income, taxes decline and transfers increase, with the decline in disposable income being smaller than the shock to gross income. Several components of government budgets are affected by the macroeconomic situation in ways that operate to smooth the business cycle, with progressive income taxes and unemployment benefits being the most prominent examples. Automatic stabilization might not only have effects on disposable income but also on GDP itself. If fewer taxes are collected and more transfers are paid in a recession, this should support private incomes and dampen adverse movements in aggregate demand.

Naturally, cushioning shocks through taxes and transfers comes at the cost of an increase in the government budget deficit. The usual assumption is for this gap to be closed through debt financing. However, in the current Eurozone debt crisis, some countries have lost access to private capital markets and thus need outside help to close this gap. We will return to the issue of debt financing of the euro area unemployment scheme further below.

The extent to which automatic stabilizers mitigate the impact of income shocks on household demand essentially depends on the tax and transfer system, determining the way in which a given shock to gross income translates into a change in disposable income. For instance, in the presence of a UI system with a replacement ratio of 60%, a shock on gross income at the extensive margin of 1000 Euros leads to a decline in disposable income of 400 Euros. In this case, the UI system absorbs 60% of the shock to gross income.

A common measure for estimating automatic stabilization is the "normalized tax change" used by Auerbach and Feenberg (2000) which can be interpreted as "the tax system's builtin flexibility" (Pechman 1973, 1987). Based on this idea, Dolls et al. (2012) define the "income stabilization coefficient", τ , that shows how changes in market income X (defined as the sum of all incomes from market activities such as (self)-employment, business and property income) translate into changes in disposable income Y (market income minus taxes plus benefits) through changes in net tax payments T. They extend the concept of normalized tax change to include other taxes as well as SIC and transfers.

In our simulations, we follow their approach and calculate the income stabilization effects of an euro area unemployment insurane system in year t had such a system been in place in the period 2008-2013. τ is computed using arithmetic changes between year t and t-1 in benefits payments from the common euro area UI system ($\sum_i \Delta B_i$) and employment income changes along the extensive margin ($\sum_i \Delta X_i$) based on household micro level information:

$$\tau = \frac{\sum_i \Delta B_i}{\sum_i \Delta X_i}.$$
(1)

 τ is positive if the sum of euro area UI benefit payments in year t is higher than in the previous year given a reduction in gross income and zero otherwise.

National UI systems in the crisis

Unemployment benefits are supposed to work as an automatic stabilizer in economic crises when economies are hit by rising unemployment rates. Before discussing potential costs and benefits of a centralized unemployment insurance system at the Eurozone level, it is therefore important to investigate the effectiveness of national unemployment insurance systems to cushion unemployment shocks. In this section, we review existing evidence on the shock-absoption capacity of national UI systems in Europe in the event of unemployment shocks. Moreover, we document discretionary policy changes regarding unemployment insurance in euro area countries during the crisis.

Dolls et al. (2012) use the same pre-crisis micro data as we do and run a controlled experiment in which the unemployment rate in each Eurozone country is increased such that total household income decreases by 5 per cent. They calculate income stabilization

coefficients described above for 14 Eurozone countries which are shown in Figure 1.⁶ Their main findings can be summarized as follows. The extent to which unemployment shocks are absorbed by pre-crisis unemployment insurance systems differs substantially within the euro area. In most of the continental European and Nordic countries at least 25 per cent of the shock is cushioned, whereas there is very little stabilization in particular in Eastern and Southern European countries. Lowest values are found for Estonia, Greece, Italy and Slovenia. This finding is surprising from an insurance point of view since countries with low stabilization tend to be those with low incomes on average implying that households in these countries are particularly vulnerable to income losses.

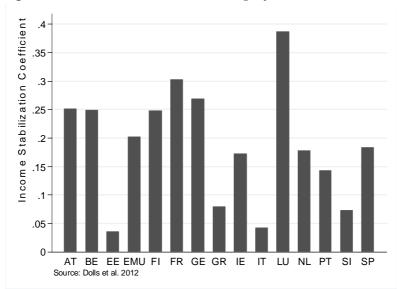


Figure 1: Income stabilization for unemployment shock scenario⁷

Given the heterogeneity of national unemployment insurance systems within the euro area regarding their automatic stabilization effects before the start of the crisis⁸, it is instructive to scrutinize policy changes regarding national UI systems during the crisis and to assess whether these policy changes led to a convergence or divergence process in terms of income protection. Table A.1 in the Appendix reveals that in 2009 total unemployment expenditure increased by roughtly 28% in the euro area and remained on a comparatively high level in the following years. Bontout and Lokajickova (2013) decompose these changes into the main factors influencing unemployment expenditure. They show that in 2009, the increase was mainly driven by rising numbers of short- and long-term unemployed and only to a minor extent due to higher average unemployment

⁶ Conceptionally, the unemployment shock modelled in their paper differs from our modelling approach. While they assume that the structure of the new unemployed is equal to the existing pool of unemployed, we assume in our simulations that the new (un)employed have similar characteristics as the total population.

⁷ Data for Cyprus, Malta and Slovakia was not available at the time of writing of that paper.

⁸ See Figari et al. (2011) for further evidence on differences in the degree of income protection offered by tax-benefit systems in Europe in the event of income shocks.

expenditure per unemployed. In 2010, average expenditure per unemployed declined by more than 5 per cent (c.f., Bontout and Lokajickova 2013, p. 23). These numbers document the budgetary effect of rising unemployment in the euro area in recent years, but do not give an indication whether changes in average expenditure per unemployed are caused by more or less generous UI systems or by a changing structure of the new unemployed. In order to assess whether the stabilizing effect of national UI systems has changed in recent years, we focus on changes in replacement ratios, the maximum duration of benefit receipt, qualifying conditions and contribution rates and document discretionary policy changes during the crisis along these dimensions.

Table A.2 shows average replacement rates in the initial phase of unemployment for the period 2007-2011. Focusing on the so-called GIIPS countries (Greece, Ireland, Italy, Portugal and Spain) which were especially hit by rising unemployment in that period (see chaper 4), one can conclude that Spain is the only country from this group with relatively constant average replacement rates ranging between 73-74 per cent during this period. In Greece, Ireland, Italy and Portugal, replacement ratios became somewhat less generous after 2009, e.g. falling to 52 per cent in Greece in 2011 which was the second lowest value in the Eurozone after Malta (47.5 per cent). Qualifying conditions became stricter in Ireland (from 2009 onwards, 104 weeks of contributions instead of 39), but were alleviated in Portugal (falling from 450 days of employed work and contribution payment to 360 in 2013, c.f., Table A.3). The permitted maximum duration of benefit receipt was reduced in Ireland (from 390 days in 2007 to 312 days in 2009 and further to 234 days in 2013) and Portugal (different durations depending on the age of the unemployed), c.f. Table A.4. Finally, policy changes also affected contribution rates and ceilings up to which contributions have to be paid. Table A.5 shows that in Greece the lower monthly ceiling of 2,432 Euros for employees who had been insured since 1993 or before was raised to the general ceiling of 5,546 Euros which broadened the tax base for the national UI system, but increased the tax wedge for the working population. In Ireland, the ceiling for employees increased from 48,000 Euros in 2007 to 75,036 Euros in 2009 and was completely abolished afterwards. At the same time, costs for employers were reduced by lowering the employer contribution rate from 8.5 per cent in 2011 to 4.25 per cent in 2013.

4. Possible characteristics of an Eurozone wide unemployment insurance scheme

There are different options how an unemployment insurance scheme for the Eurozone could be designed. In particular, specific choices need to be made regarding eligibility rules, replacement ratios and duration of benefit receipt. Additionally, the interaction between the euro area and the national unemployment insurance systems needs to be considered. The common system could partly replace national systems by providing a minimum benefit level for a limited duration or complement national systems by providing additional transfers in economic downturns. Closely related is the question when transfers from the common insurance system should kick in. They could be conditioned on macroeconomic indicators such as the unemployment rate and would be

triggered if certain thresholds are reached or, alternatively, kick in automatically if an eligible person becomes unemployed. Finally, there are different options for the financing. It can take place at the national level or be pooled at the Eurozone level. In the following, we discuss the characteristics of three possible variants of a common unemployment insurance scheme for the euro area: a minimum insurance scheme, a benefit extension program and a scheme that fully replaces national systems.

4.1. A basic UI scheme

An unemployment insurance scheme for the euro area which provides a minimum level of insurance has first been proposed by Deinzer (2004) and Dullien (2007, 2013). By providing a minimum insurance for a limited time period, such a scheme would partly replace national unemployment insurance systems which could top up benefits from the euro area system. All unemployed with previous employment (and possibly selfemployment) income would be eligible for benefits, depending on the duration of previous employment. UI payments from the common scheme could kick in directly at the beginning of the unemployment spell or after a short 'waiting period'. The maximum duration of benefit receipt would be limited to a certain time period, for example 12 months. This could be prolonged by national UI systems. Such a system would leave room for diversity between member states. Differences with regard to replacement rates and benefit duration could be maintained by additional transfers from national UI systems.

How much stabilization is provided by the common system and when does the stabilization from the central level kick in?

Transfers from the central level are timely as benefits are paid from the start of the unemployment spell or after a short waiting period. In contrast to a benefit extension program which is triggered if certain thresholds are reached, all new unemployed who fulfill the eligibility criteria receive transfers from the common euro area unemployment insurance system. Given that the common system provides a minimum level of insurance, the stabilization effect of the common system is limited by construction but could be enhanced by national systems. As benefits from the common system expire after a certain time period, stabilization from the central level decreases in the share of long-term unemployed in an economy. In sum, at least part of the stabilization in the presence of unemployment shocks is provided by the euro area unemployment insurance system which might help avoiding pro-cyclical fiscal policy in severe economic downturns if countries have lost access to capital markets.

How large is the risk of permanent redistribution?

Given that the scheme conditions on job losses, i.e. on *changes* in employment status rather than on unemployment *levels*, the risk of permanent transfers is limited. Differences in unemployment rates alone do not lead to permanent redistribution because benefits expire. It may nevertheless happen that (net) transfers from the euro area unemployment insurance system are unevenly distributed across countries if flows into unemployment diverge permanently.

Therefore a key factor determining redistributive effects of such a minimum insurance scheme is the share of short-term unemployed. If countries A and B are characterized by

the same income distribution, the unemployment rates do not deviate over time, but the share of short-term unemployed is constantly higher in country A relative to country B, the former will receive a higher share of transfers from the common unemployment insurance system. The reason is that there are more people entering (and leaving) unemployment, and those entering unemployment receive benefits.⁹

Would such a scheme undermine the incentives of national governments to address structural weaknesses? How large is the risk of administrative manipulation?

This risk is an unavoidable feature of insurance mechanisms. The risk that a common minimum unemployment insurance system undermines the incentives of national governments to implement structural reforms is likely to be limited, though. Structural weaknesses usually affect medium to long term growth and employment perspectives. Transfers from the common system expire after a certain time period. After this time period, national governments will have to bear the full costs of unemployment. Therefore the common unemployment insurance system would undermine incentives to address structural weaknesses much less than a system of permanent transfers.

Administrative manipulation might be a more important issue. A common unemployment insurance system which is (only) targeted at short-term unemployment could be exploited by using administrative discretion to increase the number of transfer recipients, essentially by raising the number of unemployed that can be classified as newly unemployed. Incentives to manipulate and costs of this manipulation would depend on the characteristics of the system like the required employment period and the length of the waiting period for eligibility to euro area unemployment benefits. The shorter both periods are, the less costly is administrative manipulation, but shorter periods also reduce the desired insurance effect.

To what extent is individual behavior distorted, i.e. how strong are moral hazard concerns?

Whether distortions at the individual level change would depend on whether overall benefits (national and Europen benefits combined) change, relative to the status quo, given that the euro area unemployment insurance system would partly replace existing national systems.

4.2. A benefit extension program

An alternative option for a euro area unemployment insurance scheme would be to complement national systems by providing additional benefits which could either top-up national benefits or kick-in if national benefits expire. The payout rules would be triggerbased, i.e. benefits from the common system would be paid if the level and/or change in unemployment reached pre-determined thresholds. Contributions to the scheme could be lowered or suspended in those countries where transfer payments had been triggered in order to increase the stabilizing effect of the program. Such a system would be broadly comparable with various benefit extension programs in the US. There, regular UI benefits can be extended through a combination of permanent and temporary legislation. The

⁹ Economies where seasonal employment like in tourism, for instance, play an important role, would be likely to have larger flows into and out of unemployment.

federal Extended Benefits (EB) program provides additional 13-20 weeks of benefits to workers in states where the level and change in the state unemployment rate is above a specified threshold. The EB program has been supplemented by temporary programs, most recently by the Emergency Unemployment Compensation (EUC) program which provides up to 47 weeks of additional unemployment benefits to jobless workers who have exhausted their regular benefits (see e.g., Center on Budget and Policy Priorities 2013, CBO 2012 or Farber and Valletta 2013 for more information).

How much stabilization is provided by the common system and when does the stabilization from the central level kick in?

A euro area unemployment benefit extension program would not provide benefits in normal times but would only kick-in in deep recessions when certain indicators such as the unemployment rate reaches pre-defined thresholds. It would thus provide stabilization when it is mostly needed.

How large is the risk of permanent redistribution?

This depends on the exact rules and specifications of such a scheme. If the scheme only conditions on the level of the unemployment rate, the probability that there is permanent redistribution from low to high unemployment countries is high. This risk could be reduced by additionally conditioning on other factors such as changes in unemployment. Further important factors would be if the triggers are country-specific or not and, closely related, the link between contributions and benefits. In contrast to the basic euro area unemployment insurance system which pays benefits to all unemployed who previously contributed to the scheme, a benefit extension program could break the link between contributions and benefits, e.g. if payouts from the common system are trigger-based. Hence, contribution and payout rules would need to be carefully chosen so that the general acceptance of the scheme would not be undermined by a perceived unbalancedness of transfer payments.

Would such a scheme undermine the incentives of national governments to address structural weaknesses? How large is the risk of administrative manipulation?

The risk that national governments do not address structural weaknesses of the economy could be higher than under a minimum insurance scheme given that the extended benefit program would not only cover cyclical but potentially also structural unemployment.

To what extent is individual behavior distorted, i.e. how strong are moral hazard concerns?

Extended unemployment insurance benefits which prolong the period of UI receipt can have adverse incentive effects. For example, Farber and Valletta (2013) and Rothstein (2011) find a small but statistically significant reduction in unemployment exit rates in the US in the Great Recession caused by extended unemployment benefits. However, the social costs may be overestimated when market externalities of UI extension programs are not properly accounted for (Lalive et al. 2013).

4.3. A fully centralized UI system

A third option would be to introduce a full euro area unemployment insurance scheme. This reform would be far-reaching as national UI systems would be *fully* replaced by a euro area UI system, in contrast to alternatives 1 and 2 where the euro area system would

either partly replace or complement national UI systems. Several options for designing such a system are possible – such as choosing a specific system among the existing ones or simply some kind of average system. The latter approach has the (political economy) advantage that one does not have to make a choice in favour of one and against all other countries. Such an average euro area UI system could be estimated along the lines of Bargain et al. (2013) and Dolls et al. (2013) who use the European tax-benefit calculator EUROMOD and representative household micro data to estimate a joint tax and transfer system for 11 Eurozone countries and the EA17.

How much stabilization is provided by the common system and when does the stabilization from the central level kick in?

By construction, those member states whose national UI systems provide below-average stabilization, e.g. because of below-average replacement rates, duration of benefit receipt or low coverage rates, would experience a gain in stabilization whereas the opposite would be true for member states with above-average stabilization effects of their national systems. Automatic stabilization effects would only be provided by the central level as contributions and benefits would be paid into/from the common system.

How large is the risk of permanent redistribution?

The risk of permanent redistribution from low to high unemployment member states is substantially higher than under alternatives 1 and 2 given that the scheme would not only insure cyclical, but also structural unemployment.

Would such a scheme undermine the incentives of national governments to address structural weaknesses? How large is the risk of administrative manipulation?

The incentives of national governments to implement structural (labor market) reforms could be severely affected by a euro area UI system that fully replaces national systems since (direct) costs of unemployment would be completely borne by the central level.

To what extent is individual behavior distorted, i.e. how strong are moral hazard concerns?

As with the basic unemployment insurance system, in principle distortions at the individual level should not depend on the tier of government which administers the unemployment insurance system.

5. Economic effects of a basic unemployment insurance scheme for the euro area

5.1. Key features of a basic unemployment insurance scheme for the Euro area

Given the three broad alternatives for a euro area unemployment insurance scheme presented above, the key question is which scheme would best serve its purpose of improving economic resilience of the EMU by cushioning asymmetric shocks without leading to permanent transfers across member states and without undermining incentives of national governments to implement structural reforms. These criteria are explicitly emphasized in the van Rompuy report *"Towards a Genuine Economic and Monetary Union"* and in the report *"A blueprint for a deep and genuine economic and monetary union –*

Launching a European Debate" both outlining a roadmap for the (potential) further institutional development of EMU (see van Rompuy et al. 2012 and European Commission 2012).

The choice of the UI scheme analyzed in our empirical analysis is based on the following considerations. In terms of political feasibility, it is unlikely that a euro area unemployment insurance scheme that fully replaces national systems would be unanimously supported by all EA member countries. That is why we disregard alternative 3 described above. Comparing alternatives 1 and 2, one can conclude that both approaches would help absorb cyclical asymmetric shocks in the EMU, albeit in a different way. A key difference is the timing when transfers from the common level kick in, either immediately or only when national benefits expire or certain triggers are reached. Other characteristics would be similar, for example the general requirement of active job search to be eligible for UI benefits from the common system. In our empirical analysis, we consider the economic effects of a basic unemployment insurance scheme as a benchmark case. Clearly, the basic euro area UI system could be combined with elements of an extended benefit program, e.g. transfers could be activated once unemployment rates are above a certain threshold and continue rising. Our benchmark simulations provide a useful starting point to illustrate the economic effects of a common UI system in the euro area.

We use 2007 micro household data and employ counterfactual ex-ante simulation methods to ask the question of what would have happened during the crisis had the euro area had a common unemployment insurance system in place from 2008-2013. In our setup, the common system has a replacement rate of 50% of previous (gross) wages which corresponds to the lowest replacement rate of national UI systems in the euro area in 2007 (Greece, see Table A.2 in the Appendix). All new unemployed with previous income (as well as self-employment income) are eligible for benefits from the euro area UI system for up to 12 months. The scheme is financed by a proportional payroll tax and is calibrated so that it is revenue neutral over the period 2008-2013, i.e., it can run deficits in single years, but needs to be balanced over a longer time period. The total contribution rate (sum of employer and employee social insurance contributions) is 1.9% on all employment income. The total volume of this scheme at the EMU-level is 365 billion euros over the whole simulation period (2008-2013), i.e. the average yearly budget is roughly 61 billion euros.

5.2. Changes in (short-term) unemployment and coverage rates

Before assessing the redistributive and stabilizing effects of a euro area UI system, it is instructive to consider how unemployment rates in EMU have developed since the start of the common currency and, in particular, during the simulation period 2008-2013 including the recent deep recession which had a tremendous impact on labor markets in Europe. Figure 2 shows unemployment rates in Germany, the so-called GIIPS countries (Greece, Italy, Ireland, Portugal and Spain) as well as in the EA17 since 2001.

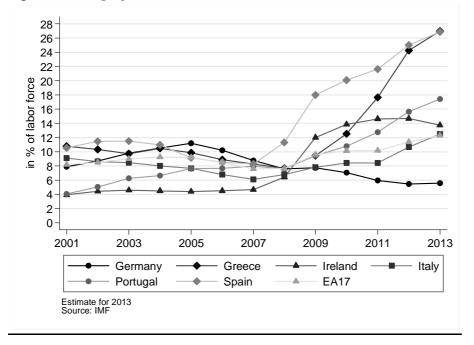


Figure 2: Unemployment rates in selected EA member states 2001-2013

The figure reveals that unemployment rates have followed different cycles within the euro area. In Germany, it was increasing from 2001 onwards reaching its peak in 2005 with a rate of 11.2% (see also Table 2 and Figure 7 for unemployment rates of all EA member states). In that year, the German unemployment rate was above the EA17 average and also higher than in the GIIPS countries. In contrast unemployment was declining from 2003-2007 in Spain and from 2004-2008 in Greece indicating that these two countries were in a different position of the business cycle in these years. Since then, unemployment has been rising in Spain and Greece up to a rate of 27% in 2013. Unemployment has also been increasing in Portugal, Ireland, and Italy since 2007, but, compared with growth rates in Spain and Greece, to a much smaller extent. IMF forecasts for the coming years suggest, however, that in Ireland the peak has been reached in 2012. Against this trend in the GIIPS countries, Germany's unemployment rate has been declining in recent years, despite a huge drop in its GDP of almost 5% in 2008.

For an assessment of an unemployment insurance scheme that only insures the first 12 months of unemployment, it is equally important to consider the share and absolute number of short-term unemployed which is depicted in Figures 3 and 4 for Germany and the GIIPS countries (see also Table 3 and Figure 8 for shares and absolute numbers of short-term unemployment for all EA member states).

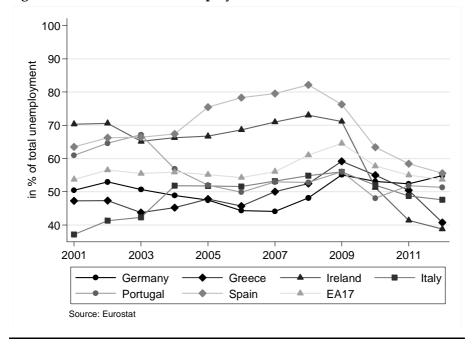


Figure 3: Share short-term unemployment rates in selected EA member states 2001-2012

Figure 4: Absolute number short-term unemployed in selected EA member states 2001-2012

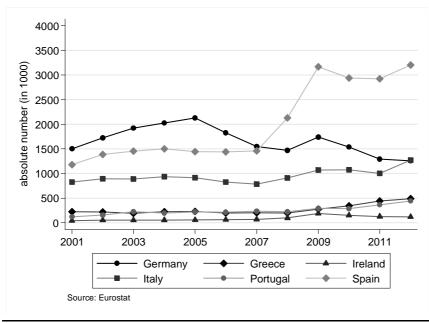
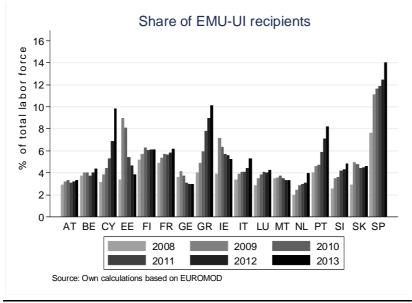


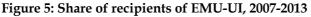
Figure 3 shows that fluctuations in the share of short-term unemployment are rather large. In the recent recession, the share of short-term unemployed increased in the majority of euro area member states from 2007 to 2008 and at the Eurozone level also from 2008 to 2009 (Table 3), but fell afterwards, in particular in those countries which were severly affected by rising unemployment (see e.g. Spain, Ireland and Greece in

Figure 3). Figure 4 reveals that absolute numbers of short-term unemployed were still rising up to 2012 (the last year for which data on short-term unemployment is available) in Spain, Italy, Greece and Portugal which can be explained by the ongoing rise in unemployment in these countries.

This pattern has important implications for the coverage and hence the stabilizing effect of a common unemployment insurance scheme in a currency union. In a deep economic crisis such as in the 2008-2009 crisis, a basic unemployment insurance scheme which covers (only) short-term unemployment has its strongest stabilizing effect when the increase in short-term unemployment is largest. This effect attenuates the larger the share of the long-term unemploymed becomes. Contrary, a benefit extension program which kicks in after certain thresholds are reached or after regular (national) UI benefits expire, unfolds its stabilizing effects only in deeply affected member states in the former or with considerable time lag in the latter case.

Our simulations confirm these implications for the basic euro area unemployment insurance scheme. Figure 5 shows that the share of benefit recipients from the euro area UI system (relative to the total labor force) would have increased in the majority of member states from 2008-2013. The largest increases would have occurred in Cyprus, Greece, Portugal and Spain, countries with huge inflows into unemployment. Notable exceptions would have been Estonia, Germany and Slovakia where the share of recipients would have gone down after 2009 due to declining unemployment rates (Estonia and Germany) and lower shares of short-term unemployed (Estonia and Slovakia).





However, in spite of rising shares of benefit recipients from the euro area UI system, the coverage ratios, i.e. the share of unemployed who would have received transfers from the common euro area UI system, would have declined significantly in those countries most affected by rising unemployment. In Spain, the ratio would have declined from 67% in

2008 to 52% in 2013, in Greece from 53% to 38%, in Ireland from 61% to 38% and in Portugal from 53% to 47%. For the EA17, the share would have decreased from 57% to 51% (see Figure 6 and Table 7).

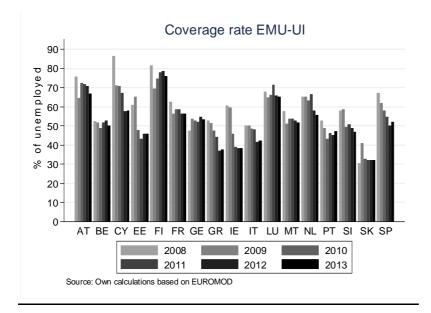
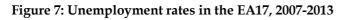
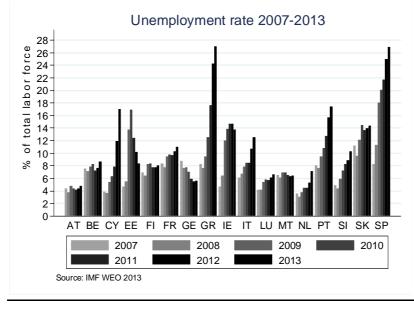


Figure 6: Coverage rate of EMU-UI, 2008-2013





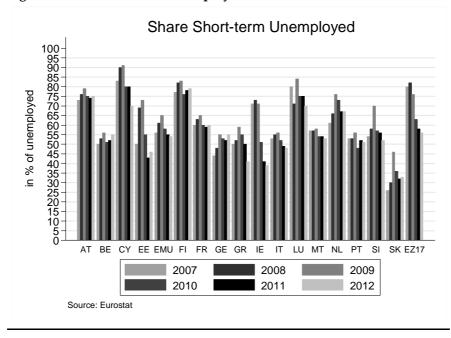


Figure 8: Share short-term unemployed, 2007-2013

Table 2: Unemployment rates (in % of total labor force) in the EA17, 2000-2013

	2000	2004	2002	2002	2004	2005	2006	2007	, 2000	2000	2010	2011	2012	2012
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
EMU	8.7	8.2	8.5	9.0	9.3	9.2	8.5	7.6	7.6	9.6	10.1	10.2	11.4	12.3
AT	3.6	3.6	4.2	4.3	4.9	5.2	4.8	4.4	3.8	4.8	4.4	4.2	4.3	4.8
BE	6.9	6.7	7.6	8.2	8.3	8.4	8.2	7.5	7.1	7.8	8.2	7.2	7.6	8.7
CY	4.8	3.9	3.5	4.1	4.6	5.3	4.5	3.9	3.6	5.4	6.3	7.9	11.9	17
EE	13.7	12.6	10.3	10.0	9.7	7.9	5.9	4.7	5.5	13.8	16.9	12.5	10.2	8.3
FI	9.8	9.1	9.1	9.0	8.8	8.4	7.7	6.9	6.4	8.2	8.4	7.8	7.8	8.0
FR	9.0	8.2	8.3	8.9	9.3	9.3	9.2	8.4	7.8	9.5	9.7	9.6	10.3	11.0
GE	8.0	7.9	8.7	9.8	10.5	11.2	10.2	8.8	7.6	7.7	7.1	6.0	5.5	5.6
GR	11.4	10.8	10.3	9.7	10.5	9.9	8.9	8.3	7.7	9.5	12.5	17.7	24.2	27.0
IE	4.3	3.9	4.4	4.6	4.5	4.4	4.5	4.7	6.4	12.0	13.9	14.6	14.7	13.7
IT	10.1	9.1	8.6	8.5	8.0	7.7	6.8	6.1	6.8	7.8	8.4	8.4	10.7	12.5
LU	2.4	2.2	2.5	3.3	3.7	4.1	4.2	4.2	4.2	5.4	5.8	5.7	6.1	6.6
MT	6.8	7.6	7.4	7.7	7.2	7.3	6.9	6.5	6.1	6.9	6.9	6.5	6.3	6.4
NL	3.1	2.5	3.1	4.2	5.1	5.3	4.4	3.6	3.1	3.7	4.5	4.4	5.3	5.3
PT	4.0	4.1	5.1	6.3	6.7	7.6	7.7	8.0	7.6	9.5	10.8	12.7	15.7	17.4
SI	6.7	6.2	6.3	6.7	6.3	6.5	6.0	4.9	4.4	5.9	7.3	8.2	8.9	10.3
SK	18.9	19.5	18.8	17.7	18.4	16.4	13.5	11.2	9.6	12.1	14.5	13.7	14.0	14.4
SP	13.9	10.6	11.5	11.5	11.0	9.2	8.5	8.3	11.3	18.0	20.1	21.7	25.0	26.9

Source: IMF World Economic Outlook, October 2013, Estimate for 2013

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
EMU	53	54	57	56	56	55	54	56	61	65	58	55	54
AT	72	74	85	77	72	75	73	73	76	79	75	74	75
BE	44	48	51	54	50	48	49	50	53	56	51	52	55
CY	77	80	83	82	74	78	82	83	90	91	80	80	70
EE	53	59	54	64	47	47	52	50	69	73	55	43	46
FI	76	77	79	79	79	74	75	77	82	83	76	78	79
FR	60	63	67	64	61	59	59	60	63	65	60	59	60
GE	50	50	53	51	49	47	44	44	48	55	53	52	55
GR	43	47	47	44	45	48	46	50	52	59	55	50	41
IE	62	70	71	65	66	67	69	71	73	71	51	41	39
IT	39	37	41	42	52	52	52	53	55	56	52	49	48
LU	100	100	84	89	85	77	74	80	71	84	75	75	70
MT	72	86	86	100	70	54	60	57	57	58	54	54	53
NL	100	100	74	72	68	60	58	61	66	76	73	67	67
PT	57	61	65	67	57	52	50	53	53	56	48	52	51
SI	37	37	45	43	47	53	51	54	58	70	57	56	52
SK	46	42	35	34	36	28	24	26	30	46	36	32	33
SP	58	63	66	66	67	75	78	80	82	76	63	58	56

Table 3: Share of short-term unemployment (less than 12 months, in % of total unemployment) in the EA17, 2000-2012

Source: Eurostat, 2013 values not available yet

2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 5363 5838 6033.6 6100.4 5836.3 5064.1 4565 5243 6632.9 7122 28.7 43.3 56.4 52.7 53.6 49.8 39.5 43.6 47.5 46.6 148.6 155.8 163.2 201.5 195.8 177.3 158.1 167.7 197.4 167.4 2.6 4 4.2 3 2.6 1.4 1.9 5.3 6.8 157.4 2.6 4 1.9 5.3 158.1 167.7 197.4 167.4 2.6 4 4.2 3 2.6 1.4 1.9 5.3 6.8 157.4 27.6 234.8 27.9 195.7 15.9 11.9 26.1 52.6 49.4 50 50.3 57.9 56.3 50.9 415 31.4 36.8 53.4 <th>2006 5836.3 53.6 195.8 2.6</th> <th>2007 5064.1 49.8 177.3</th> <th>2008 4565 39.5 158.1</th> <th>2009 5243 43.6 167.7</th> <th>2010 6632.9 47.5 197.4</th> <th>2011 7122.9 46.6 167.4</th> <th>2012 8277.5 46.8 164.7</th>	2006 5836.3 53.6 195.8 2.6	2007 5064.1 49.8 177.3	2008 4565 39.5 158.1	2009 5243 43.6 167.7	2010 6632.9 47.5 197.4	2011 7122.9 46.6 167.4	2012 8277.5 46.8 164.7
	5836.3 53.6 195.8 2.6	5064.1 49.8 177.3	4565 39.5 158.1	5243 43.6 167.7	6632.9 47.5 197.4	7122.9 46.6 167.4	8277.5 46.8 164.7
	53.6 195.8 2.6	49.8 177.3	39.5 158.1	43.6 167.7	47.5 197.4	46.6 167 4	46.8 164.7
	195.8 2.6	177.3	158.1 1 a	167.7	197.4	167.4	164.7
	2.6	- -	1 0			E. IOT	
		1.4	1.7	5.3	6.8	15.7	15.7
	19.5	15.9	11.9	26.1	52.6	49.4	38.1
	50.9	41.5	31.4	36.8	53.4	45.9	43.8
987.9	1008	882.3	764.7	898.3	1050.8	1073.5	1128.4
2399.8	2365	2015.5	1626	1450.2	1381.7	1192.1	1046.4
249	236	203.5	179.6	192.4	283.1	434.7	714
29.5	29.6	29.4	36.3	77.2	147.6	185.7	193.4
911.8	810.9	704.3	763.9	857	1009.8	1081	1439.1
2.1	2.5	1.7	3.1	1.9	2.5	2.9	3.9
5.4	4.5	4.6	4.4	5.1	5.6	5.4	5.6
159.3	141.9	107	82.6	74.2	105.7	128	156.4
202.8	214.4	210.9	201.5	232.3	313.2	340.1	418.9
31.3	29.9	22.9	19.2	18.3	32.6	36.8	42.9
309.2	271.1	219.5	177.9	174.6	249.1	247.9	254.3
469.1	398.5	374.6	463.1	984	1694.6	2078.2	2564.9
			2.10.9 2.5 4.5 141.9 214.4 29.9 398.5	2.5 1.7 2.5 1.7 4.5 4.6 141.9 107 214.4 210.9 29.9 22.9 271.1 219.5 38.5 374.6	2.5 1.7 3.1 2.5 1.7 3.1 4.5 4.6 4.4 141.9 107 82.6 214.4 210.9 201.5 29.9 22.9 19.2 271.1 219.5 177.9 398.5 374.6 463.1	510.3 /04.5 /03.5 551 2.5 1.7 3.1 1.9 4.5 4.6 4.4 5.1 141.9 107 82.6 74.2 214.4 210.9 201.5 232.3 29.9 22.9 19.2 18.3 271.1 219.5 177.9 174.6 385.5 374.6 463.1 984	010.9 /104.5 /103.9 05/ 1109.45 2.5 1.7 3.1 1.9 2.5 4.5 4.6 4.4 5.1 5.6 141.9 107 82.6 74.2 105.7 214.4 210.9 201.5 232.3 313.2 29.9 22.9 19.2 18.3 32.6 271.1 219.5 177.9 174.6 249.1 385.5 374.6 463.1 98.4 1694.6

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oloyed in 1000 in the EA17, 2000-2012	1	main tagim	ie o: 1 otal number unem	1 able 0: 1 otal number unempioyed
2004				
13,683.1		13,121.1	12,334.1 13,121.1	13,121.1
203.4		188.0	187.0 188.0	188.0
329.4		337.3	300.8 337.3	337.3
15.2	14.1 15.2	14.1	10.8 14.1	14.1
66.2		70.7	60.6 70.7	70.7
275.5		280.7	280.0 280.7	280.7
2,487.7		2,308.4	2,276.5 2,308.4	2,308.4
4,261.1		3,894.0	3,362.0 3,894.0	3,894.0
492.6		441.7	462.1 441.7	441.7
86.3		84.1	77.6 84.1	84.1
1,923.3		2,145.8	2,206.4 2,145.8	2,145.8
10.2		7.1	5.1 7.1	7.1
11.5		12.0	11.0 12.0	12.0
394.8		302.9	214.3 302.9	302.9
347.3		333.4	243.1 333.4	333.4
60.5		62.1	58.1 62.1	62.1
491.0		447.7	486.3 447.7	447.7
2,227.2		2,191.2	2,092.6 2,191.2	2,191.2
able ye	es not available ye	, 2013 values not available ye	Source: Eurostat, 2013 values not available yet	Source: Eurostat, 2013 values not available vei

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			2010		2012	2013
EMU	56.7	56.1	54.3	53.3	49.9	50.9
AT	75.7	64.5	72.4	71.7	70.7	66.8
BE	52.4	51.6	48.9	51.7	52.6	50.0
CY	86.4	70.9	70.7	67.1	57.7	57.9
EE	60.7	65.0	47.9	43.2	45.9	45.9
FI	81.6	69.4	74.7	77.8	78.6	75.9
FR	62.5	56.3	58.5	58.5	56.4	56.3
GE	47.5	53.5	52.7	52.0	54.5	53.3
GR	52.5	51.5	47.5	44.2	37.0	37.6
IE	60.5	59.6	45.9	38.8	38.2	38.3
IT	49.9	50.0	48.3	48.1	41.5	42.3
LU	67.6	64.7	66.3	71.2	65.8	65.0
MT	57.7	51.1	53.5	53.7	52.6	51.8
NL	65.2	65.0	63.2	66.5	58.0	55.6
PT	52.6	48.7	43.3	46.2	45.2	47.1
SI	57.8	58.6	49.6	50.7	48.7	46.9
SK	30.4	40.8	32.8	32.1	32.1	31.9
SP	67.3	61.8	57.9	54.7	49.9	52.1

Table 7: Coverage rate of EMU-UI, 2008-2013

Note: Coverage Rate in % of all unemployed

Source: Own calculations based on EUROMOD.

5.3. Budgetary effects and financial flows

As stated above, the simulations are based on the assumption that the euro area unemployment scheme can run deficits and surplusses in single years, but the contribution rate is set such that the scheme is balanced over the whole simulation period 2008-2013. In order to achieve revenue neutrality, a proportional payroll tax of 1.9% on all employment income is required. Figure 9 shows the sum of contributions into and payouts from the scheme at the Eurozone level. While contributions are relatively stable over the six year period, increasing from 59 billion euros in 2008 to 62 billion in 2013, benefit payments fluctuate to a much larger extent (see also Table 8). They reach their peak in 2009 and 2013 (68 and 71 billion euros), i.e. in those years when aggregate growth in unemployment was highest, and have their lowest level in 2008 (46 billion euros) when the aggregate unemployment rate in the Eurozone did not change relative to the previous year (see Table 2). Consequently, the scheme would run surplusses in 2008, 2010 and 2011 and deficits in 2009, 2012 and 2013 (see also Figure 10). Over the whole period 2008-2013, the total volume of the scheme would have been 365 billion euros at the Eurozone level.

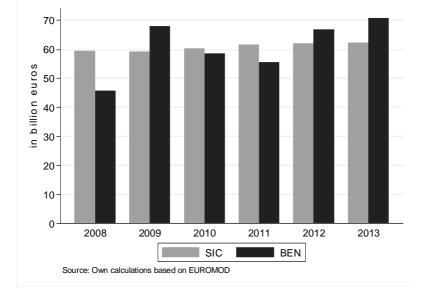
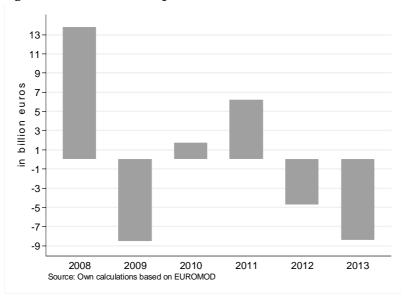


Figure 9: Contributions and benefits euro area UI scheme 2008-2013

Figure 10: Deficits and surplusses euro area UI scheme 2008-2013



At the national level, our simulations demonstrate that with yearly net contributions ranging from 7.4 to 13 billion euros, Germany would have been the largest contributor to the scheme in absolute terms (Figure 11 and Table 8) whereas when expressed relative to GDP, Austria, Germany and the Netherlands would have borne the largest burden (Figure 12 and Table 9). Among the net recipients would have been Spain, France, Greece and Portugal, i.e. those countries mostly affected by rising unemployment.

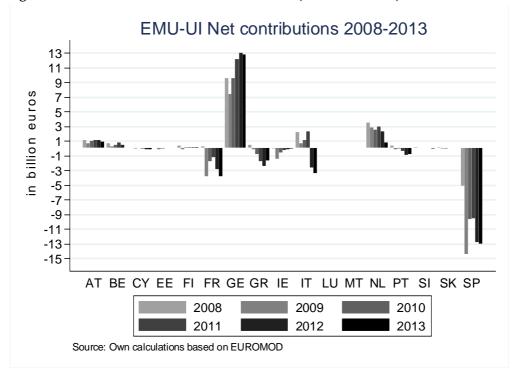
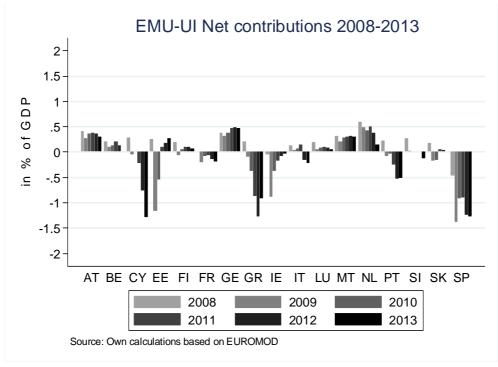


Figure 11: EMU-UI Net contributions 2008-2013 (in billion euros)

Figure 12: EMU-UI Net contributions 2008-2013 (in % of GDP)



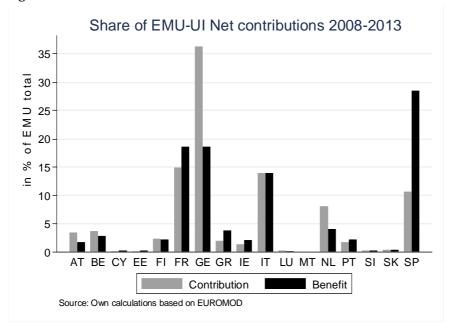


Figure 13: Share of net contributions relative to EMU total

		BAL	-8.39	0.94	0.04	-0.14	0.05	0.13	-3.86	12.81	-1.68	-0.07	-3.42	0.02	0.02	0.86	-0.87	-0.04	0.01	13.10	
	2013	SIC	62.28	2.19	2.34	0.11	0.12	1.55	9.42	23.58	0.96	0.81	8.49	0.14	0.05	4.96	0.99	0.19	0.27	6.14	
		BEN	70.67	1.25	2.30	0.25	0.07	1.42	13.29	10.77	2.65	0.89	11.91	0.12	0.02	4.10	1.86	0.23	0.26	19.24	
		BAL	-4.72	1.09	0.49	-0.04	0.03	0.19	-2.89	13.03	-2.45	-0.15	-2.62	0.03	0.02	2.30	-0.88	0.01	0.02	-12.81	
	2012	SIC	62.08	2.15	2.31	0.11	0.11	1.52	9.37	23.16	1.07	0.80	8.55	0.14	0.04	5.06	1.99	0.19	0.26	6.23	
		BEN	66.80	1.06	1.82	0.25	0.07	1.32	12.26	10.13	3.53	0.95	11.17	0.11	0.02	2.76	1.86	0.18	0.24	19.05	
		BAL	6.20	1.13	0.77	-0.04	0.02	0.20	-1.30	12.19	-1.83	-0.29	2.28	0.04	0.02	2.96	-0.44	0.00	0.04	-9.55	
	2011	SIC	61.58	2.10	2.24	0.11	0.10	1.47	9.23	22.45	1.22	0.80	8.68	0.14	0.04	5.01	1.04	0.19	0.26	6.50	
(s		BEN	55.38	0.97	1.47	0.15	0.08	1.27	10.53	10.25	3.05	1.09	6.41	0.10	0.02	2.05	1.48	0.19	0.22	16.05	
d net balance (in billion euros)		BAL	1.72	1.05	0.44	0.00	-0.08	0.11	-1.80	9.56	-0.85	-0.59	1.13	0.04	0.02	2.51	-0.06	0.00	-0.10	-9.66	
illid ni	2010	SIC	60.21	2.04	2.15	0.11	0.09	1.41	8.99	21.53	1.34	0.81	8.57	0.14	0.04	4.93	1.07	0.19	0.25	6.54	
lance (j		BEN	58.50	1.00	1.70	0.11	0.17	1.30	10.79	11.97	2.19	1.40	7.44	0.10	0.02	2.42	1.13	0.19	0.35	16.20	
		BAL	-8.55	0.73	0.32	-0.01	-0.16	-0.13	-3.80	7.39	-0.22	-1.45	0.68	0.02	0.01	2.83	-0.15	0.01	-0.11	-14.51	
tions an	2009	SIC	59.33	2.01	2.13	0.11	0.09	1.39	8.79	20.87	1.42	0.86	8.40	0.13	0.04	4.90	1.07	0.19	0.25	6.68	LIPONG
Table 8: EMU-UI benefits, contributions an		BEN	67.88	1.28	1.80	0.12	0.26	1.52	12.59	13.48	1.65	2.30	7.72	0.11	0.03	2.07	1.22	0.18	0.35	21.19	od on E
lefits, co		BAL	13.75	1.14	0.72	0.05	0.04	0.37	0.30	9.54	0.48	-0.09	2.16	0.07	0.02	3.50	0.37	0.10	0.11	-5.15	one hae
-UI ben	2008	SIC	59.45	1.98	2.12	0.11	0.11	1.39	8.78	20.87	1.40	0.92	8.35	0.13	0.04	4.81	1.06	0.19	0.25	6.94	aloulati
8: EMU		BEN	45.70	0.84	1.39	0.06	0.06	1.02	8.49	11.33	0.92	1.01	6.18	0.06	0.02	1.31	0.68	0.08	0.13	12.09	Source: Own calculations based on FUROMOD
Table			EMU	AT	BE	СY	EE	FI	FR	GE	GR	IE	II	ΓΩ	MT	NL	ЪΤ	SI	SK	SP	Source

		BAL	-0.1	0.3	0.0	-1.3	0.3	0.1	-0.2	0.5	-0.9	0.0	-0.2	0.1	0.3	0.1	-0.5	-0.1	0.0	-1.3
	2013	SIC	0.7	0.7	0.6	0.6	0.6	0.8	0.5	0.9	0.5	0.5	0.5	0.3	0.6	0.8	0.6	0.5	0.4	0.6
		BEN	0.7	0.4	0.6	1.9	0.4	0.7	0.6	0.4	1.4	0.5	0.8	0.3	0.3	0.7	1.1	0.7	0.4	1.9
		BAL	0.1	0.4	0.1	-0.8	0.2	0.1	-0.1	0.5	-1.3	-0.1	-0.2	0.1	0.3	0.4	-0.5	0.0	0.0	-1.2
	2012	SIC	0.7	0.7	0.6	0.6	0.6	0.8	0.5	0.9	0.6	0.5	0.5	0.3	0.7	0.8	0.6	0.5	0.4	0.6
		BEN	0.7	0.3	0.5	1.4	0.4	0.7	0.6	0.4	1.8	0.6	0.7	0.2	0.3	0.5	1.1	0.5	0.3	1.9
		BAL	0.1	0.4	0.2	-0.2	0.1	0.1	-0.1	0.5	-0.9	-0.2	0.1	0.1	0.3	0.5	-0.3	0.0	0.1	-0.9
	2011	SIC	0.7	0.7	0.6	0.6	0.6	0.8	0.5	0.9	0.6	0.5	0.6	0.3	0.7	0.8	0.6	0.5	0.4	0.6
_		BEN	0.6	0.3	0.4	0.9	0.5	0.7	0.5	0.4	1.5	0.7	0.4	0.2	0.4	0.3	0.9	0.5	0.3	1.5
f GDP)		BAL	0.0	0.4	0.1	0.0	-0.5	0.1	-0.1	0.4	-0.4	-0.4	0.1	0.1	0.3	0.4	0.0	0.0	-0.2	-0.9
(in % o	2010	SIC	0.7	0.7	0.6	0.7	0.6	0.8	0.5	0.9	0.6	0.5	0.6	0.3	0.7	0.8	0.6	0.5	0.4	0.6
alance		BEN	0.6	0.3	0.5	0.7	1.2	0.7	0.6	0.5	1.0	0.9	0.5	0.3	0.4	0.4	0.7	0.5	0.5	1.5
nd net t		BAL	-0.1	0.3	0.1	-0.1	-1.2	-0.1	-0.2	0.3	-0.1	-0.9	0.0	0.1	0.2	0.5	-0.1	0.0	-0.2	-1.4
tions ar	2009	SIC	0.7	0.7	0.6	0.7	0.7	0.8	0.5	0.9	0.6	0.5	0.6	0.4	0.7	0.9	0.6	0.5	0.4	0.6
ntribut		BEN	0.8	0.5	0.5	0.7	1.8	0.9	0.7	0.6	0.7	1.4	0.5	0.3	0.5	0.4	0.7	0.5	0.6	2.0
efits, contributions and net balance (in % of GDP)		BAL	0.1	0.4	0.2	0.3	0.3	0.2	0.0	0.4	0.2	0.0	0.1	0.2	0.3	9.0	0.2	0.3	0.2	-0.5
.UI ben	2008	SIC	0.6	0.7	0.6	0.6	0.6	0.7	0.5	0.8	0.6	0.5	0.5	0.4	0.7	0.8	0.6	0.5	0.4	0.6
Table 9: EMU-UI ben		BEN	0.5	0.3	0.4	0.4	04	0.5	0.4	0.5	0.4	0.6	0.4	0.2	0.4	0.2	0.4	0.2	0.2	1.1
Table 9			EMU	AT	BE	СY	ΕE	I	R	ΞE	GR	Н	IT	ĽŪ	МΤ	ЧГ	L	SI	SK	$_{\rm SP}$

5.4. Automatic stabilization effects

To what extent does the basic unemployment insurance scheme analyzed in our simulation provide income stabilization? In order to investigate this important function of the euro area UI scheme, we follow the literature on automatic stabilization effects of tax-benefit systems (c.f., Auerbach and Feenberg 2000, Dolls et al. 2012, Bargain et al. 2013) and calculate the income stabilization coefficient defined in section 2 which relates changes in taxes and benefits to changes in gross income. It thus measures how much of a shock on gross income is absorbed by the tax-benefit system. In other words, changes in net incomes are smaller than gross income changes if a fraction of the shock is cushioned by taxes or benefits and UI can thus have a consumption-smoothing effect (cf., Baily 1978, Gruber 1997, Chetty 2008). To what extent the cushioning of the shock translates into demand stabilization depends on how households adjust their consumption expenditure after changes in net income (c.f., Jappelli and Pistaferri 2010 for a survey). The higher the share of credit-constrained households, the larger will be the stabilizing effect on aggregate demand.¹⁰ For the purpose of this study, we rely on the income stabilization coefficient as an indicator for the automatic stabilization effect of the euro area UI scheme given that unemployment is a good predictor for limited liquidity (Gruber 1997, Browning and Crossley 2001, Bloemen and Stancanelli 2005).

UI can stabilize disposable income either through reduced contributions or through benefit payments. In our simulations, we calculate changes in benefit payments from and social contributions into the euro area UI scheme from year t to year t+1 at the country-level and relate these changes to gross income changes at the extensive margin, i.e. due to job losses or exits out of unemployment, for the stabilizing effect of UI benefits and to the sum of changes at the extensive *and* intensive margin, i.e. due to changes in earnings, for the stabilizing effect of UI contributions. The UI scheme does have a stabilizing effect if total benefit payments at the country level are higher or contributions are lower than in the previous year conditional on an aggregate loss in gross income.

Figure 14 shows stabilization results for the GIIPS countries, Table 10 for the EA17. Our micro data allow us to precisely calculate stabilization effects of the euro area UI taking into account the heterogeneity of the population. The first important result is that in 2009 the euro area UI would have had a stabilizing effect in all 17 member states. This is due to the fact that in 2009 unemployment rates and the share of short-term unemployed went up in the euro area and, equally important, that the scheme can build up deficits in single years. Any shock absorption scheme without the latter capacity would have unfolded a destabilizing effect in those member states which were comparably less severe affected in that recession year. Euro area UI benefits would have absorbed 42.5 percent of the shock on gross income at EMU-level with national values ranging from 32.5 percent in Italy to almost 130 percent in Germany.¹¹ The stabilizing effect of reduced contribution payments

¹⁰ See e.g. Dolls et al. 2012 who use information on financial wealth, home-ownerhsip and direct survey evidence to identify credit-constrained households in their micro data.

¹¹ Note that (aggregate) income stabilization at the country-level can be higher than the replacement rate of 50 percent if the share of short-term unemployed increases from year t to t+1. In

amounts to 1.9 percent which is equal to the proportional payroll tax. Note that we account for extensive and intensive margin income changes when calculating the stabilizing effect of contributions which explains why stabilization stemming from changes in contribution payments can be zero even if unemployment increases. This happens if income growth at the intensive margin outweighs income losses at the extensive margin.¹²

Interestingly, in spite of declining coverage rates (see Table 7) Greece and Spain are the only member states which would have been stabilized either by UI benefits and/or reduced contributions over the whole sample period. At the other end of the spectrum are countries such as Estonia or Malta which would have been stabilized only in two out of 5 years. One can thus conclude that the basic UI scheme analyzed in our simulations would have supported those countries with the worst labor market developments and hence, would have had the intended effect in terms of income stabilization.

Work in progress

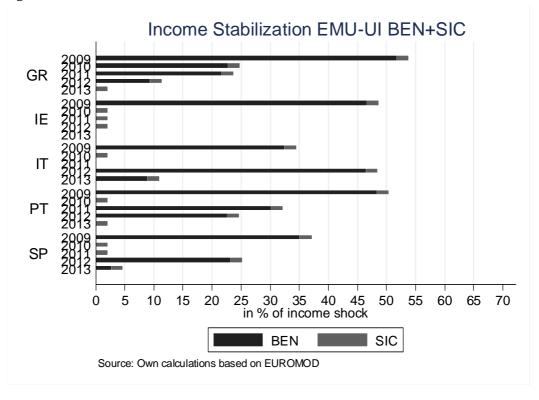


Figure 14: Income stabilization EMU-UI in selected member states

that case, the aggregate change in benefits can be even higher than the aggregate gross income loss, which, in the case of Germany would have led to a stabilization coefficient of more than 100 percent in 2009.

¹² If we account for income changes at the extensive margin only, social insurance contribution to the euro area UI would have a strictly positive stabilizing effect if the total number of contributors to the scheme goes down.

	20	09	201	10	201		203	12	20	13
	BEN	SIC	BEN	SIC	BEN	SIC	BEN	SIC	BEN	SIC
EMU	42.5	1.9	0.0	0.0	0.0	0.0	37.8	0.0	12.8	0.0
AT	41.5	0.0	0.0	0.0	0.0	0.0	60.8	0.0	38.3	0.0
BE	50.4	0.0	0.0	0.0	0.0	0.0	72.8	0.0	38.1	0.0
CY	56.0	0.0	0.0	0.0	42.9	0.0	38.6	1.9	19.7	1.9
EE	43.2	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
FI	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	0.0
FR	48.2	0.0	0.0	0.0	0.0	0.0	55.2	0.0	30.1	0.0
GE	129.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	44.0	0.0
GR	51.8	0.0	22.7	1.9	21.7	1.9	9.4	1.9	0.0	1.9
IE	46.7	1.9	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0
IT	32.5	0.0	0.0	0.0	0.0	0.0	46.5	1.9	8.9	1.9
LU	55.9	0.0	0.0	0.0	0.0	0.0	41.3	0.0	31.6	0.0
MT	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.4	0.0
NL	45.4	0.0	18.7	0.0	30.2	1.9	22.6	1.9	0.0	0.0
PT	48.4	0.0	0.0	0.0	30.2	1.9	22.6	1.9	0.0	0.0
SI	66.3	0.0	5.2	0.0	4.4	0.0	0.0	1.9	35.8	1.9
SK	65.0	1.9	0.1	0.0	0.0	0.0	67.9	0.0	30.3	0.0
SP	35.1	1.9	0.0	1.9	0.0	1.9	23.2	1.9	2.7	1.9

Table 10: Income stabilization coefficient

Source: Own calculations based on EUROMOD.

6. Economic effects of a benefit extension program for the euro area

Work in progress

7. Conclusions

The current economic crisis in the Eurozone has brought the idea of deeper fiscal integration to the top of the European policy agenda. A common unemployment insurance system is one key reform proposal which could serve as a fiscal risk sharing mechanism in the euro area. However, main concerns often expressed in these debates include permanent transfer flows induced by such a supranational automatic stabilizer and the risk of moral hazard.

In this paper, we have presented different possible variants of an unemployment insurance system for the euro area and discussed their implications for stabilization, redistribution and moral hazard. Using counterfactual simulation techniques based on harmonized European micro data, we have examined the economic effects of a basic unemployment insurance scheme that provides a minimum level of insurance for the period 2008-2013. We have shown that such a scheme could help countries in severe

economic crises avoiding pro-cyclical fiscal policy as some shock absorption would be provided by the central level. Finally, we have addressed many specific issues regarding design and administration.

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Appendix

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-	aute A.L.	ordunatio	латы марти	experiature in minimu euros		SUL						
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	126,640.83	127,958.88	126,640.83 127,958.88 139,234.70 147,458.12	147,458.12	148,570.42	145,755.31	138,586.97	129,383.56	129,383.56 131,248.10 167,773.18 166,209.51	167,773.18	166,209.51	155,606.69
	3,051.11	3,139.97	3,583.64	4,002.45	4,087.08	3,963.05	4,057.32	3,754.90	3,632.94	4,423.43	4,391.02	3,987.28
	8,122.73	8,248.24	9,153.42	9,978.55	10,333.75	10,453.56	10,554.03	10,351.80	10,459.45	12,015.11	12,190.78	11,994.05
	120.97	119.57	106.42	106.25	129.73	148.83	174.42	137.78	163.50	153.78	164.65	185.97
	12.87	13.68	11.57	20.90	20.59	18.28	13.74	19.55	40.16	138.79	86.84	57.89
	3,549.21	3,407.74	3,528.49	3,750.45	3,879.84	3,768.18	3,572.26	3,307.87	3,124.66	3,818.49	3,945.74	3,384.63
	31,507.63	31,807.61	35,366.09	38,243.34	38,499.30	38,239.18	36,215.58	34,724.47	33,492.61	38,033.85	39,508.22	38,296.65
	47,277.93	46,976.88	50,323.54	51,478.66	50,513.81	46,770.41	42,371.92	36,713.37	34,244.97	43,230.15	39,854.25	31,613.99
	2,117.60	2,227.92	2,445.40	2,280.87	2,489.78	2,398.61	2,238.96	2,272.82	2,692.69	3,332.17	3,269.37	3,717.71
	1,581.97	1,612.99	1,839.07	1,912.07	2,015.93	2,048.40	2,226.89	2,445.25	3,026.58	4,953.07	5,618.63	5,336.63
	5,751.99	5,506.65	6,163.79	6,468.00	6,931.49	7,242.00	7,363.55	6,603.43	7,360.78	11,154.63	11,911.50	11,384.21
	148.23	180.93	197.45	248.32	289.84	322.80	325.47	331.57	330.85	433.20	449.90	432.33
	18.68	19.32	39.48	33.12	30.77	30.08	30.63	26.61	27.35	31.29	29.80	30.31
	6,027.24	6,014.13	6,626.58	8,016.49	8,240.82	8,150.00	7,177.10	6,259.62	5,854.56	7,895.79	8,641.24	8,054.28
	1,016.01	1,047.64	1,249.82	1,787.60	1,939.99	2,051.95	1,981.61	1,826.23	1,656.29	2,162.02	2,311.00	2,125.03
	238.46	216.52	192.24	188.84	197.39	211.50	185.72	138.09	125.46	184.65	207.49	249.65
	281.79	212.98	255.00	346.75	371.31	211.16	217.47	249.94	280.34	453.11	449.98	383.38
	14,822.52	16,320.05	17,662.72	18,350.57	18,583.55	19,727.33	19,995.05	20,293.13	24,625.97	35,343.22	33,359.14	34,233.24
	Source: Eurostat	ostat										

	2007	2008	2009	2010	2011
AT	63.50	63.50	63.33	63.33	63.00
BE	66.67	66.67	74.83	74.17	72.00
CY	67.83	n.a.	n.a.	n.a.	n.a.
EE	61.83	61.83	61.17	62.00	62.33
FI	61.50	61.17	60.83	61.83	61.83
FR	72.00	71.83	71.83	71.83	71.83
GE	68.50	68.33	68.50	68.83	67.67
GR	50.50	55.00	55.67	50.83	52.17
IE	59.50	60.33	64.33	61.83	60.50
IT	67.17	70.50	71.00	69.67	68.67
LU	85.00	85.00	84.33	84.33	85.33
MT	51.17	50.33	50.33	49.83	47.50
NL	78.50	78.67	78.17	77.83	78.83
PT	83.17	83.00	83.00	80.17	80.50
SI	72.00	74.00	74.50	77.67	83.17
SK	68.00	68.50	67.33	67.50	68.50
SP	74.00	73.33	73.00	73.50	72.83

Table A.2: Unemployment benefit replacement rates

Definition: average unemployment benefit replacement rate during the first year of unemployment across two income situations (100% and 67% of average earnings) and three family situations (single, one-earner married couple, two-earner married couple). The initial net replacement rates measure is defined: Initial phase of unemployment but following any waiting period (excluding social assistance, covering two earning levels and three family situations, as mentioned above). Any income taxes payable on unemployment benefits are determined in relation to annualized benefit values (i.e. monthly values multiplied by 12) even if the maximum benefit duration is shorter than 12 months. For married couples the percentage of AW relates to the previous earnings and no recent employment history. Where receipt of social assistance or other minimum-income benefits is subject to activity tests (such as active job-search or being "available" for work), these requirements are assumed to be met. AW: Average Worker; an adult full-time worker in the covered industry sectors whose wage earnings are equal to the average wage earnings of such workers.

Table A.3: Qual	ifying conditions for	or unemployment benefits

	2007	2009	2011	2013
AT	52 weeks of insurance		52 weeks of insurance	52 weeks of insurance
	periods within the last	52 weeks of insurance	periods within the last	periods within the last
	24 months. 26 weeks	periods within the last	24 months. 26 weeks	24 months. 26 weeks
	within the last 12	24 months. 26 weeks	within the last 12	within the last 12
	months for persons	within the last 12	months for persons	months for persons
	under the age of 25.	months for persons under the age of 25.	under the age of 25.	under the age of 25.
BE	Period varies according	Period varies according	Period varies according	Period varies according
	to the age of the	to the age of the	to the age of the	to the age of the
	insured person	insured person	insured person	insured person
	between 312 working	between 312 working	between 312 working	between 312 working

days during the previous 18 months, and 624 working days over the previous 36 months. Conditions relate to

Y Conditions relate to extent of contributions

> paid: The insured person has been insured for at least 26 weeks up to the date of unemployment, Lower part of insurable earnings up to the date of unemployment equal to at least 26 times the weekly Basic Insurable Earnings (Βασικές Ασφαλιστέες Αποδοχές) of CYP 82.67 (€142) per week; and

Paid and credited insurable earnings in the benefit year are at least equal to 20 times the weekly amount of Basic Insurable Earnings.

Definitions:

Lower part of insurable earnings: insurable earnings up to Basic Insurable Earnings. Upper part of insurable earnings: insurable earnings over Basic Insurable Earnings. Benefit year: Starts from the first Monday of July and ends the last Sunday prior to the first Monday from which the benefit year will start.

days during the previous 18 months, and 624 working days over the previous 36 months. Conditions relate to

extent of contributions paid:

* The insured person has been insured for at least 26 weeks up to the date of unemployment, Lower part of insurable earnings up to the date of unemployment equal to at least 26 times the weekly Basic Insurable Earnings (Βασικές Ασφαλιστέες Aποδοχές) of €154.07 week; per and * Paid and credited insurable earnings in the benefit year are at least equal to 20 times the weekly amount of Insurable Basic Earnings.Definitions: Lower part of insurable earnings: insurable earnings up to Basic Insurable Earnings. Upper part of insurable

earnings: insurable earnings over Basic Insurable Earnings. Benefit year: Starts from the first Monday of July and ends the last Sunday prior to the first Monday from which the benefit year will start.

days during the previous 18 months, and 624 working days over the previous 36 months.

Conditions relate to extent of contributions paid:

* The insured person has been insured for at least 26 weeks up to the date of unemployment,

* Paid basic insurance up to the date of unemployment equal to at least 26 times the weekly Basic Insurable Earnings (Baouxės Aoφaλιστės Aποδοχės) of €167.05 per week (0.50 insurance point); and

* Paid and assimilated insurance in the the relevant contribution year is at least equal to 20 times the weekly amount of Basic Insurable Earnings (0.39 insurance point).

Definitions:

Basic insurance: insurable earnings up to Basic Insurable Earnings (up to one insurance point). One insurance point: equal to 52 times the weekly basic amount = € 8,687.

Relevant contribution year: the last contributions year, prior to the benefit year, which includes the date of fulfilling the relevant insurance conditions.

Benefit year: the period which starts the first Monday of July of each year and ends the last Sunday prior to the days during the previous 21 months, and 624 working days over the previous 42 months. Conditions relate to the

extent of contributions paid:

* the insured person has been insured for at least 26 weeks up to the date of unemployment;

* paid basic insurance up to the date of unemployment equal to at least 26 times the weekly Basic Insurable Earnings (Bασικές Ασφαλιστέες Αποδοχές) of €174.38 per week (0.50 insurance point); and

* paid and assimilated insurance in the relevant contribution year is at least equal to 20 times the weekly amount of Basic Insurable Earnings (0.39 insurance point). Following the exhaustion of payment, entitlement can be regained after 26 weeks of employment from the day of exhaustion and provided that insurance has been paid during that period equal to at least 26 times the weekly Basic Insurable Earnings (Βασικές Ασφαλιστέες Αποδοχές). Definitions:

Basic insurance: insurable earnings up to Basic Insurable Earnings (up to one insurance point). One insurance point: equal to 52 times the weekly basic amount = € 9.068.

first Monday of July of Relevant contribution the following year.

year:

the

contribution year, prior to the benefit year,

last

				which includes the date of fulfilling the relevant insurance conditions. Benefit year: the period which starts the first Monday of July of each year and ends the last Sunday prior to the first Monday of July of the following year
EE	Unemployment Insurance Benefit (töötuskindlustushüviti s): Insurance period (payment of contributions) of 12 months over the 36 months preceding registration as an	Unemployment Insurance Benefit (töötuskindlustushüviti s): Insurance period (payment of contributions) of 12 months over the 36 months preceding registration as an	(töötuskindlustushüviti s): Insurance period (payment of contributions) of 12 months over the 36 months preceding registration as an	the following year. Unemployment Insurance Benefit (töötuskindlustushüviti s): Insurance period (payment of contributions) of 12 months over the 36 months preceding registration as
FI	unemployed. Insurance: Basic unemployment allowance (peruspäiväraha): Employees: Initial condition at least 43 weeks of employment during the last 28 months and during each week at least 18 hours. Re-eligibility condition at least 34 weeks of employment during the last 24 months and during each week at least 18 hours. Self-employed persons: at least 24 months of entrepreneurship during the last 48 months.	unemployed. Insurance: Basic unemployment allowance (peruspäiväraha): * Employees: Initial condition at least 43 weeks of employment during the last 28 months and during each week at least 18 hours. Re-eligibility condition at least 34 weeks of employment during the last 24 months and during each week at least 18 hours. * Self-employed persons: at least 24 months of entrepreneurship during the last 48	unemployed. Insurance: Basic unemployment allowance (peruspäiväraha): * Employees: Initial condition at least 34 weeks of employment during the last 28 months and during each week at least 18 hours. * Self-employed persons: at least 18 months of entrepreneurship during the last 48 months.	unemployed. Insurance: Basic unemployment allowance (peruspäiväraha): * Employees: Initial condition at least 34 weeks of employment during the last 28 months and during each week at least 18 hours. * Self-employed persons: at least 18 months of entrepreneurship during the last 48 months.
FR	Unemployment insurance (assurance chômage): At least 6 months (182 days) insurance during the last 22 months preceding the unemployment.	months. Unemployment insurance (assurance chômage): At least 4 months (122 days) insurance during the last 28 months (36 months for those aged 50 and over) preceding	Unemployment insurance (assurance chômage): At least 4 months (122 days) insurance during the last 28 months (36 months for those aged 50 and over) preceding	Unemployment insurance (assurance chômage): At least 4 months (122 days) insurance during the last 28 months (36 months for those aged 50 and over) preceding

GE

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Unemployment insurance (Arbeitslosenversicher ung): The unemployed person must have been compulsorily insured for at least 12 months during the last 2 years. At least 125 days of work during the 14 months preceding job loss or, at least, 200 days of work during the 2 years preceding job loss. For first time claimants, additional an requirement of at least 80 days of work per year during the 2 previous years applies.

the unemployment.

Unemployment

insurance (Arbeitslosenversicher ung): The unemployed person must have been compulsorily insured for at least 12 months during the last 2 years. At least 125 days of work during the 14 months preceding job loss or, at least, 200 days of work during the 2 years preceding job loss. For first time claimants, an additional requirement of at least 80 days of work per year during the 2 previous years applies.

the unemployment.

Unemployment

insurance (Arbeitslosenversicher

ung): The unemployed person must have been compulsorily insured for at least 12 months during the last 2 years. At least 125 days of work during the 14 months preceding job loss or, at least, 200 days of work during the 2 years preceding job loss. For first time claimants, an additional requirement of at least 80 days of work per year during the 2 previous years applies.

IE

IT

Insurance: weekly 39 contributions paid; and 39 weekly contributions paid or credited during the contribution relevant vear preceding the benefit vear. or 26 weekly contributions paid in each of the two years relevant tax preceding the benefit year.

Ordinary unemployment benefit: Two years of insurance and 52 weekly contributions during the last 2 years. Special unemployment benefit:

Insurance:

104 weekly contributions paid; and 39 weekly contributions paid or credited during the contribution relevant preceding vear the benefit year, of which a minimum of 13 must be paid contributions. The latter requirement may be satisfied by contributions paid in some other contribution years, or 26 weekly contributions paid in each of the two relevant tax vears preceding the benefit vear. Ordinary

unemployment benefit: Two years of insurance and 52 weekly contributions during the last 2 years.

Special unemployment

Insurance:

104 weekly contributions paid; and 39 weekly contributions paid or credited during the contribution relevant preceding vear the benefit year, of which a minimum of 13 must be paid contributions. The latter requirement may be satisfied by contributions paid in other some contribution years, or 26 weekly contributions paid in each of the two relevant tax vears preceding the benefit vear. Ordinary

unemployment benefit: Two years of insurance and 52 weekly contributions during the last 2 years.

Special unemployment

the unemployment.

Unemployment insurance

(Arbeitslosenversicher

ung): The unemployed person must have been compulsorily insured for at least 12 months

during the last 2 years. * At least 125 days of work during the 14 months preceding job loss or, at least, 200 days of work during the 2 years preceding loss. From iob the reference periods the two last months are excluded.

* For first time claimants, an additional requirement of at least 80 days of work per year during the 2 previous years applies.

Insurance:

104 weekly contributions paid; and 39 weekly contributions paid or credited during the relevant contribution vear preceding the benefit year, of which a minimum of 13 must be paid contributions. The latter requirement may be satisfied by contributions paid in other some contribution years, or 26 weekly paid in contributions each of the two relevant tax vears preceding the benefit vear.

Employment social allowance (Assegno Sociale per l'Impiego, ASpl):

Having matured at least two years of work insurance contributions one of which accrued

	10 monthly contributions of 43 weekly contributions during the last two years in the building industry.	benefit: 10 monthly contributions of 43 weekly contributions during the last two years in the building industry.	benefit: 10 monthly contributions of 43 weekly contributions during the last two years in the building industry	during the two years prior to the onset of unemployment. Mini ASpI: Having matured at least 13 weeks (3 months) of contributions during the 12 months prior to dismissal.
LU	At least 26 weeks of employment during the last year.	At least 26 weeks of employment during the last year.	At least 26 weeks of employment during the last year.	At least 26 weeks of employment during the last year.
MT	50 weeks of paid contributions of which at least 20 paid or credited should be in the last two previous years.	50 weeks of paid contributions of which at least 20 paid or credited should be in the last two previous years.	50 weeks of paid contributions of which at least 20 paid or credited should be in the last two previous years.	50 weeks of paid contributions of which at least 20 paid or credited should be in the last two previous years.
NL	Short-term benefit (kortdurende uitkering): At least 26 weeks of paid employment during the last 36 weeks (week condition). Salary-related benefit (loongerelateerde uitkering): 26-weeks-condition and employment in at least 4 years during the last 5 calendar years, in each of which a salary over 52 days was paid (4-out-of-5 condition).	A person who has been employed for at least 26 weeks in the 36 weeks before the first day of unemployment (weeks' condition) qualifies for a three- month benefit. A person who has received wages for at least 52 days in four of the five calendar years preceding the year in which s/he became unemployed, (years' condition) qualifies for a benefit payable for a number of months that equals the number of months in employment (with a maximum of 38 months).	A person who has been employed for at least 26 weeks in the 36 weeks before the first day of unemployment (weeks' condition) qualifies for a three- month benefit. A person who has received wages for at least 52 days in four of the five calendar years preceding the year in which s/he became unemployed, (years' condition) qualifies for a benefit payable for a number of months that equals the number of months in employment (with a maximum of 38 months).	A person who has received wages in at least 26 weeks out of the 36 weeks before the first day of unemployment (weeks' condition) qualifies for a three-month benefit. A person who has received wages for at least 208 hours in four of the five calendar years preceding the year in which s/he became unemployed, (years' condition) qualifies for a benefit payable for a number of months that equals the number of months in employment (with a maximum of 38
РТ	Unemployment insurance: At least 450 days of salaried work and contribution payment, or assimilated situation, in 24 months preceding commencement of unemployment.	Unemployment insurance: At least 450 days of salaried work and contribution payment, or assimilated situation, in 24 months preceding commencement of unemployment	Unemployment insurance: At least 450 days of employed work and contribution payment, or assimilated situation, in the 24 months preceding commencement of unemployment.	months). Unemployment insurance: At least 360 days of employed work and contribution payment, or assimilated situation, in the 24 months preceding commencement of unemployment.
SI	At least 3 years (2 years in case of temporary	unemployment. At least 3 years (2 years in case of temporary	At least 2 years of unemployment	At least 2 years of unemployment

	employment) of unemployment insurance contributions during the last 4 years.	employment) of unemployment insurance contributions during the last 4 years.	insurance contributions during the last 3 years (4 years in case of temporary employment).	insurance contributions during the last 3 years (4 years in case of temporary employment).
-	At least 12 months of employment (full time equivalent) during the previous 18 months.	At least 12 months of employment (full time equivalent) during the previous 18 months.	At least 9 months of insurance during the previous 24 months.	At least 9 months of insurance during the previous 24 months. For unemployed persons younger than 30 years: at least 6 months of insurance during the previous 24 months.
	Insurance: Minimum contribution period of 360 days during the 6 years immediately preceding the legal unemployment situation.	Insurance: Minimum contribution period of 360 days during the 6 years immediately preceding the legal unemployment situation.	Insurance: Minimum contribution period of 360 days during the 6 years immediately preceding the legal unemployment situation.	Insurance: Minimum contribution period of 360 days during the 6 years immediately preceding the legal unemployment situation.
Source:		European		ommission

(http://www.missoc.org/MISSOC/INFORMATIONBASE/COMPARATIVETABLES/MISSOCDA TABASE/comparativeTableSearch.jsp)

Table A.4: Duration of unemployment benefit recei	pt
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	2007	2009	2011	2013
Т	Unemployment benefit (Arbeitslosengeld):	Unemployment benefit	Unemployment benefit (Arbeitslosengeld):	Unemployment benefi (Arbeitslosengeld):
	Depends on insurance	(Arbeitslosengeld):	Duration of payment	Duration of paymen
	duration and age.	Depends on insurance	depends on insurance	depends on insuranc
	Insurance periods and duration of payment:	duration and age.	duration and age:	duration and age
	52 weeks within 2 years: 20 weeks;	Insurance periods and duration of payment:	52 weeks within 2 years: 20 weeks;	52 weeks within years: 20 week
	156 weeks within 5	52 weeks within 2	156 weeks within 5	156 weeks within
	years: 30 weeks;	years: 20 weeks;	years: 30 weeks;	vears: 30 week
	312 weeks within 10	156 weeks within 5	312 weeks within 10	312 weeks within 1
	years	years: 30 weeks;	years and 40 years of	years and 40 years of
	and 40 years of age: 39	312 weeks within 10	age: 39 weeks;	age: 39 week
	weeks;	years and 40 years of	468 weeks within 15	468 weeks within 1
	468 weeks within 15	age: 39 weeks;	years and 50 years of	years and 50 years of
	years	468 weeks within 15	age: 52 weeks.	age: 52 week
	and 50 years of age: 52	years and 50 years of	After completion of a	
	weeks.	age: 52 weeks.	vocational	After completion of
		This duration will be	rehabilitation from the	vocational
	This duration will be	extended by the period	statutory social	rehabilitation from th
	extended by the period	during which the	insurance the duration	statutory soci
	during which the	beneficiary participates	of payment amounts to	insurance the duration
	beneficiary participates	in a follow-up training	78 weeks. The duration	of payment amounts
	in a follow-up training	or retraining measure	will be extended by the	78 weeks. The duration
	or retraining measure	or in a reintegration	period during which	will be extended by th
	or in a reintegration	measure commissioned	the beneficiary	period during which
	measure commissioned	by the Labour Market	participates in a follow-	the benefician

	by the Labour Market Service and by 156 or 209 weeks if the beneficiary participates in a work foundation (special training measure).	Service and by 156 or 209 weeks if the beneficiary participates in a work foundation (special training measure).	up training or retraining measure or in a reintegration measure commissioned by the Labour Market Service and by 156 or 209 weeks if the beneficiary participates in a work foundation (special training measure). old-age pension are met.	participates in a follow- up training or retraining measure or in a reintegration measure commissioned by the Labour Market Service and by 156 or 209 weeks if the beneficiary participates in a work foundation (special training measure).
BE	No limit (except for certain cases of long- term unemployment or in case of active search for employment).	No limit (except in case of active search for employment).	No limit (except in case of active search for employment).	No limit (provided the beneficiary actively looks for work and notably follows a pathway to work).
CY	156 days.	156 days.	156 days.	156 days.
EE	Unemployment Insurance Benefit (töötuskindlustushüviti s): 180 calendar days for a	Unemployment Insurance Benefit (töötuskindlustushüviti s):	Unemployment Insurance Benefit (töötuskindlustushüviti s):	Unemployment Insurance Benefit (töötuskindlustushüviti s):
	person with an insurance period less than 56 months, 270 calendar days for a person with an	* 180 calendar days for a person with an insurance period less than 56 months,	* 180 calendar days for a person with an insurance period less than 56 months,	* 180 calendar days for a person with an insurance period less than 56 months,
	insurance period from 56 to 110 months, 360 calendar days for a person with an insurance period of 111	* 270 calendar days for a person with an insurance period from 56 to 110 months,	* 270 calendar days for a person with an insurance period from 56 to 110 months,	* 270 calendar days for a person with an insurance period from 56 to 110 months,
	or more months.	* 360 calendar days for a person with an insurance period of 111 or more months.	* 360 calendar days for a person with an insurance period of 111 or more months.	* 360 calendar days for a person with an insurance period of 111 or more months.
FI	Insurance: 500 calendar days. An employee born prior to 1950 and who has reached the age of 57 while in receipt of an unemployment allowance may be paid until the age of 60, after which entitled to unemployment pension. An employee born in 1950 or thereafter who has reached the age of 59 while in receipt of an unemployment allowance may be paid	Insurance: 500 calendar days. An employee born prior to 1950 and who has reached the age of 57 while in receipt of an unemployment allowance may be paid until the age of 60, after which entitled to unemployment pension. An employee born in 1950 or thereafter who has reached the age of 59 while in receipt of an unemployment allowance may be paid	Insurance: Maximum period of 500 calendar days. A jobseeker born prior to 1950 can then apply for unemployment pension (Työttömyyseläke). A jobseeker born in 1950-1954 may, notwithstanding the maximum period, be paid unemployment allowance until the end of the calendar month in which s/he reaches the age of 65, provided s/he has reached the	Insurance: Maximum period of 500 calendar days. A jobseeker born prior to 1950 can then apply for unemployment pension (Työttömyyseläke). A jobseeker born in 1950-1954 may, notwithstanding the maximum period, be paid unemployment allowance until the end of the calendar month in which s/he reaches the age of 65, provided s/he has reached the age of 59 before the
	anowance may be palu	anowance may be palu	Sy the thas reactive the	age of 59 before the

until the age of 65.

until the age of 65.

age of 59 before the

acquired, on expiry of

the maximum period,

employment years - as

defined by law - over

the last 20 years.

A jobseeker born in

1955 or later may,

maximum period, be

allowance until the end

of the calendar month

in which s/he reaches

the age of 65, provided

s/he has reached the

age of 60 before the

acquired, on expiry of

and

unemployment

notwithstanding

least

and

period

has

five

the

period

has

maximum

expires

at

paid

maximum

expires

maximum

expires

vears.

paid

maximum

expires

12

16

6

8

6

8

period

has

the

period

has

and

acquired, on expiry of

the maximum period, at

least five employment

vears - as defined by

law - over the last 20

A jobseeker born in

1955 or later may,

maximum period, be

allowance until the end

of the calendar month

in which s/he reaches

the age of 65, provided

s/he has reached the

age of 60 before the

acquired, on expiry of

the maximum period, at

and

unemployment

notwithstanding

the maximum period, least five employment least years - as defined by at five employment years - as law - over the last 20 defined by law - over vears. the last 20 years. FR Unemployment Unemployment Unemployment Unemployment insurance insurance insurance (assurance insurance (assurance (assurance (assurance chômage): chômage): chômage): chômage): Duration of payment of The duration of The duration of The duration of the benefit varies payment of the benefit payment of the benefit payment of the benefit according to length of corresponds to the corresponds to the corresponds to the insurance and to age; length of insurance length of insurance length of insurance minimum: 7 months, taken into account for taken into account for taken into account for maximum: 36 months. acquiring entitlement acquiring entitlement acquiring entitlement to to benefits (between 4 to benefits (between 4 benefits (between 4 months and 2 years or months and 2 years or months and 2 years or 3 3 years if the 3 years if the years if the beneficiary beneficiary is aged 50 beneficiary is aged 50 is aged 50 and over). and over). and over). GE Unemployment Unemployment Unemployment Unemployment insurance insurance insurance insurance (Arbeitslosenversicher (Arbeitslosenversicher (Arbeitslosenversicher (Arbeitslosenversicheru ung): The duration of ng): The duration of ung): The duration of ung): The duration of benefits (DB) depends benefits (DB) depends benefits (DB) depends benefits (DB) depends on the duration of on the duration of on the duration of on the duration of compulsory insurance compulsory insurance compulsory insurance compulsory insurance coverage (DI) and on coverage (DI) and on coverage (DI) and on coverage and on the age of the beneficiary: of the age of the age of the the age the the DB beneficiary: Age DP beneficiary: beneficiary: (months) (years) (months) DI (months) Age DI (months) DI (months) Age Age 12 6 DB (months) (years) DB (months) (years) DB (months) (years)

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2412305515365518(Provision in force since 1 January 2004 for new entitlements after 1 February 2006).	20102412305015365518485824(Provision in forcesince 1 January 2008;special provision forpersonswhocompleted their 50th or58th year of age before1 January 2008 andwhose entitlement isnot yet exhausted, incase they had theentitlement for themaximum period ofentitlement accordingto the provision thatwas valid till 31December2007:increase to 15 or 24months).	$\begin{array}{ccccccc} 20 & & 10 \\ 24 & & 12 \\ 30 & 50 & 15 \\ 36 & 55 & 18 \\ 48 & 58 & 24 \end{array}$	$\begin{array}{ccccc} 20 & & 10 \\ 24 & & 12 \\ 30 & 50 & 15 \\ 36 & 55 & 18 \\ 48 & 58 & 24 \end{array}$
Generally proportional to periods of employment: Employment duration: 125 days 5 months 150 days 6 months 180 days 8 months 220 days 10 months 250 days 12 months If aged 49 or more: 210 days 12 months In all cases, 3 additional months at reduced rate, if 4,050 days of work, 12 additional months. For the newcomers on the labour market (youngsters between 20-29 years): 5 months of benefits. In all cases, 25 instalments of daily unemployment benefit for each month.	Generally proportional to periods of employment: Employment duration: 125 days: 5 months 150 days: 6 months 180 days: 8 months 220 days: 10 months 250 days: 12 months If aged 49 or more: 210 days: 12 months In all cases, 3 additional months at reduced rate, if 4,050 days of work, 12 additional months. For the newcomers on the labour market (youngsters between 20-29 years): 5 months of benefits. In all cases, 25 instalments of daily unemployment benefit for each month.	Generally proportional to periods of employment: Employment duration: 125 days: 5 months 150 days: 6 months 180 days: 8 months 220 days: 10 months 250 days: 12 months If aged 49 or more: 210 days: 12 months In all cases, 3 additional months at reduced rate, if 4,050 days of work, 12 additional months. For the newcomers on the labour market (youngsters between 20-29 years): 5 months of benefits. In all cases, 25 instalments of daily unemployment benefit for each month.	Generally proportional to periods of employment: Employment duration: 125 days 5 months 150 days 6 months 180 days 8 months 220 days 10 months 250 days 12 months If aged 49 or more: 210 days 12 months If one of the above conditions for granting unemployment benefits is fulfilled and 4.050 or more days of insurance are certified: 12 months. For the newcomers on the labour market (young people between 20-29 years): 5 months (¢73.37). Every beneficiary is entitled to 25 days of insurance for each month during which unemployment benefit

GR

3	Insurance:	Insurance:	Insurance:	Insurance:
	390 days but limited to		312 days but limited to	234 days but limited to
	312 days if applicant	312 days but limited to	234 days if applicant	156 days if applicant
	has paid less than 260	234 days if applicant	has paid less than 260	has paid less than 260
	weekly contributions	has paid less than 260	weekly contributions	weekly contributions
	since first entering	weekly contributions	since first entering	since first entering
	insurance. If applicant	since first entering	insurance. If applicant	insurance. If applicant
	is 65, the allowance	insurance. If applicant	is 65, the allowance	is 65, the allowance will
	will be paid until 66	is 65, the allowance	will be paid until 66	be paid until 66
	(pension age) if 156	will be paid until 66	(pension age) if 156	(pension age) if 156
	weekly contributions	(pension age) if 156	weekly contributions	weekly contributions
	have been paid.	weekly contributions	have been paid.	have been paid.
		have been paid.		
ſ	Ordinary	Ordinary	Ordinary	Employment social
	unemployment benefit:	1 5		
	210 days (300 days for	210 days (300 days for		
	the unemployed aged	the unemployed aged		- · ·
	over 50 years).	over 50 years).	over 50 years).	durations will be
	Special unemployment			gradually increased
	benefit:		Special unemployment	according to age:
	90 days with of	benefit:	benefit:	
	extension in the event	2	2	* Unemployed persons
	of a recession	avtancian in the avant	avtancion in the avant	under 50 will be

ıs under 50 will be granted the benefit for 8 months till 2014, then increased to 10 months in 2015;

* Unemployed persons between the age of 50 and 54 will be granted the benefit for a period of 12 months till 2015;

* Unemployed persons aged 55 and over will be granted the benefit for 12 months in 2013 then increased to 14 months in 2014 and 16 2015. months in

January 2016 From onwards:

* Unemployed persons under 55 will be granted the benefit for 12 months;

* Unemployed persons aged 55 and over will be granted the benefit for 18 months.

ASpI: Mini

IT

extension in the event of a recession.

extension in the event of a recession.

is granted.

IE

Granted for a number of weeks corresponding to half the number of weekly contributions paid during the last year prior to dismissal. . 365 calendar davs a reference during * 365 calendar days * 365 calendar days 365 calendar days period of 24 months during a reference during a reference during a reference period of 24 months period of 24 months (without exceeding the period of 24 months duration of working (without exceeding the (without exceeding the (without exceeding the number of working days over the reference number of working number of working period). days over the reference days over the reference days over the reference 182 extra calendar davs period). period). period). for persons particularly "difficult" to * 182 extra calendar * 182 extra calendar * 182 extra calendar place. For unemployed of 50 davs for persons davs for persons davs for persons "difficult" "difficult" vears and more particularly "difficult" particularly particularly prolongation of 12, 9 or to place. to place. to place. 6 months respectively if 30, 25 or 20 years of unemployed * For unemployed For unemployed For persons over 50 years persons over 50 years persons over 50 years of affiliation to pension. of age, prolongation of of age, prolongation of age, prolongation of 12, 12, 9 or 6 months if 30, 12, 9 or 6 months if 30, 9 or 6 months if 30, 25 25 or 20 years of 25 or 20 years of or 20 years of affiliation affiliation to pension affiliation to pension to pension insurance, insurance, respectively. insurance, respectively. respectively. A maximum of 156 A maximum of 156 A maximum of 156 A maximum of 156 days' benefit or when davs' benefit or when davs' benefit or when days' benefit, provided the number of benefit the number of benefit the number of benefit that the number of days paid do not days paid do not days paid do not benefit days paid does exceed the number of exceed the number of exceed the number of not exceed the number contributions contributions contributions of contributions paid paid paid paid under a Contract of under a Contract of under a Contract of under a Contract of Service. Service. Service. Service. For example, a person For example, a person For example, a person For example, a person claims Unemployment claims Unemployment claims Unemployment claims Unemployment Benefit (Beneficcju ghal Benefit (Beneficcju ghal Benefit (Beneficcju ghal Benefit (Beneficcju ghal dizimpjieg) after dizimpjieg) dizimpjieg) after dizimpjieg) after after working for 70 weeks working for 70 weeks working for 70 weeks working for 70 weeks since his/her entry in since his entry in the since his/her entry in since his entry in the Scheme. He will be Scheme. He will be the Scheme. S/he will the Scheme. S/he will entitled to a maximum entitled to a maximum entitled entitled be to а be to а of 70 days. All other of 70 days. All other maximum of 70 days. maximum of 70 days. number of days paid as number of days paid as All other number of All other number of days paid as sickness days paid as sickness sickness and sickness and unemployment prior to unemployment prior to and unemployment and unemployment this claim will also be this claim will also be prior to this claim will prior to this claim will deducted. So if he has deducted. So if he has also be deducted. So if also be deducted. So if previously taken previously taken 8 s/he has previously s/he has previously taken 8 days sick leave days sick leave his days sick leave his taken 8 days sick leave entitlement would be entitlement would be his/her entitlement his/her entitlement of 62 days. of 62 days. would be of 62 days. would be of 62 days. Short-term benefit A person who only A person who only A person who only (kortdurende meets the weeks' the weeks' the weeks' meets meets uitkering): condition receives condition receives condition receives

MT

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NL

6 months.	benefits for a	benefits for a	benefits for a maximum
	maximum duration of	maximum duration of	duration of 3 months.
Salary-related benefit	3 months.	3 months.	A person who satisfies
(loongerelateerde	A person who satisfies		the years' condition
uitkering):	the years' condition	A person who satisfies	receives benefits for as
The benefit will be	receives benefits for as	the years' condition	many months as the
payable for as many	many months as the	receives benefits for as	number of months in
months as the number	number of months in	many months as the	employment, with a
of years in employment	employment, with a	number of months in	maximum of 38
(with a maximum of 38	maximum of 38	employment, with a	months.
months).	months.	maximum of 38	See "1. Conditions",
	See "1. Conditions",	months.	"Qualifying period".
	"Qualifying period".	See "1. Conditions",	
		"Qualifying period".	
Unemployment	Unemployment	Unemployment	Unemployment
insurance:	insurance:	insurance:	insurance:
Duration of benefits	Duration of benefits	Duration of benefits	Duration of benefits
proportional to age and	proportional to age and	proportional to age and	proportional to age and
length of contribution:	length of contribution:	length of contribution:	length of contribution:
(1) aged less than 30	(1) aged less than 30	(1) aged less than 30	(1) aged less than 30
years:	years:	years:	years:
contribution period <			
24 months: 270 days of	* contribution period >	* contribution period <	* contribution period <
payment;	24 months: 360 days of	24 months: 270 days of	15 months: 150 days of
contribution period i 24	payment; 30 extra days	payment;	payment;
months: 360 days of	every 5 years of		
payment; 30 extra days	registered income	* contribution period >	* contribution period \geq
every 5 years of	before	24 months: 360 days of	15 months and < 24
registered income	unemployment.(2)	payment; 30 extra days	months: 210 days of
before unemployment.	aged from 30 to 40	every 5 years of	payment;
(2) aged from 30 to 40	years:	registered income	* contribution marined >
years: contribution period <	* contribution period	before unemployment.(2)	* contribution period \geq 24 months: 330 days of
48 months: 360 days of	* contribution period >	aged from 30 to 40	payment; 30 extra days
payment;	24 months: 540 days of	years:	every 5 years of
contribution period c	payment; 30 extra days	years.	registered income
24 months: 540 days of	every 5 years of	* contribution period <	during the last 20 years
payment; 30 extra days	registered income	48 months: 360 days of	preceding
every 5 years of	during the last 20 years	payment;	unemployment.
registered income	preceding	payment	unemployment.
during the last 20 years	unemployment.(3)	* contribution period >	(2) aged from 30 to 40
preceding	aged from 40 to 45	24 months: 540 days of	years:
unemployment.	years:	payment; 30 extra days	y curs.
(3) aged from 40 to 45	y curst	every 5 years of	* contribution period <
years:	* contribution period	registered income	15 months: 180 days of
contribution period <	* contribution period >	during the last 20 years	payment;
60 months: 540 days of	60 months: 720 days of	preceding	1 //
payment;	payment; 30 extra days	unemployment.(3)	* contribution period \geq
contribution period c	every 5 years of	aged from 40 to 45	15 months and < 24
60 months: 720 days of	registered income	years:	months: 330 days of
payment; 30 extra days	during the last 20 years	J	payment;
every 5 years of	preceding	* contribution period <	L J '
registered income	unemployment.(4)	60 months: 540 days of	* contribution period \geq
during the last 20 years	aged 45 years or more:	payment;	24 months: 420 days of
preceding		. .	payment; 30 extra days
unemployment.	* contribution period	* contribution period >	every 5 years of
(4) aged 45 years or	* contribution period >	60 months: 720 days of	registered income
	-		

PT

more: 72 months: 900 days of payment; 30 extra days during the last 20 years contribution period < payment; 60 extra days every 5 years of preceding 72 months: 720 days of every 5 years of registered income unemployment. payment; registered income during the last 20 years contribution period c during the last 20 years preceding (3) aged from 40 to 50 72 months: 900 days of preceding unemployment.(4) years: payment; 60 extra days unemployment. aged 45 years or more: every 5 years of * contribution period < * contribution period < 15 months: 210 days of registered income 72 months: 720 days of payment; during the last 20 years payment; preceding * contribution period \geq unemployment. 15 months and < 24* contribution period > 72 months: 900 days of months: 360 days of payment; 60 extra days payment; every 5 years of registered * contribution period \geq income during the last 20 years 24 months: 540 days of preceding payment; 45 extra days unemployment. everv 5 years of registered income during the last 20 years preceding unemployment. (4) aged 50 years or more: * contribution period < 15 months: 270 days of payment; * contribution period \geq 15 months and < 24months: 480 days of payment; * contribution period \geq 24 months: 540 days of payment; 60 extra days every 5 years of registered income during the last 20 years preceding unemployment. Unemployment Benefit Unemployment Benefit Unemployment Benefit Unemployment Benefit (Dávka (Dávka (Dávka (Dávka nezamestnanosti): nezamestnanosti): nezamestnanosti): nezamestnanosti): 6 months (4 months in case of temporary temporary case of employees on case of case of temporary employment). employment). employment). fixed-term labour After a period of 3 contracts). months, the beneficiary After a period of 3 has the choice either to months, the beneficiary continue receiving has the choice either to benefit (for another 3 continue receiving

months maximum) or

benefit (for another 3

SI

			to cancel the registration as jobseeker and obtain a bonus.	months maximum) or to cancel the registration as jobseeker and obtain a bonus.
SK	Depends upon length of insurance: 3 months for insurance	Depends upon length of insurance:	Depends upon length of insurance:	Depends upon length of insurance and partly also on age:
	of 1 to 5 years,	* 3 months for	* 3 months for	* :
	6 months for insurance of 5 to 15 years, 9 months for insurance	insurance of 1 to 5 years,	insurance of 9 months to 5 years,	 insurance period between 9 months and years: 3 months,
	of 15 to 25 years,	* 6 months for	* 6 months for	- j ,
	12 months for insurance of 25 years or more,	insurance of 5 to 15 years,	insurance of 5 to 15 years,	 insurance period between 5 and 15 years: 6 months,
	18 months for insured	* 9 months for	* 9 months for	
	persons over 50 years of age and insurance period of more than 25	insurance of 15 to 25 years,	insurance of 15 to 25 years,	* insurance period between 15 and 25 years: 9 months,
	years,	* 12 months for	* 12 months for	<u>j</u> ,
	24 months for insured persons over 55 years of age with on	insurance of 25 years or more,	insurance of 25 years or more,	* insurance period of 25 years or more: 12 months (19 months if
	of age with on insurance period of more than 25 years.	* 18 months for insured persons over 50 years of age and insurance	* 19 months for insured persons over 50 years of age and insurance	over age 50; 25 months if over age 55).
		period of more than 25 years,	period of more than 25 years,	Only for unemployed persons younger than 30 years:
		* 24 months for insured	* 25 months for insured	
		persons over 55 years of age with on insurance period of more than 25 years.	persons over 55 years of age with on insurance period of more than 25 years.	* insurance period of at least 6 months: 2 months.
SP	Insurance:	Insurance:	Insurance:	Insurance:
	Depending on contribution period	Depending on contribution period	Depending on contribution period	Depending on contribution period
	over preceding 6 years. The duration of the	over preceding 6 years. The duration of the	over preceding 6 years. The duration of the	over preceding 6 years. The duration of the
	payment varies from a	payment varies from a	payment varies from a	payment varies from a
	minimum of 4 months	minimum of 4 months	minimum of 4 months	minimum of 4 months
	to a maximum of 2 years.	to a maximum of 2 years.	to a maximum of 2 years.	to a maximum of 2 years.
Source	5	European	- -	Commission

Source: European Commission (http://www.missoc.org/MISSOC/INFORMATIONBASE/COMPARATIVETABLES/MISSOCDA TABASE/comparativeTableSearch.jsp)

Table A.5:	Unemploy	yment Insurance	Contribution
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Table A.5: Unemployment Insurance Contribution				
	2007	2009	2011	2013
AT	6.00% total, of which	6.00% total, of which	6.00% total, of which	6.00% total, of which
	3.00% employees,	3.00% employees,	3.00% employees,	3.00% employees,
	3.00% employers.	3.00% employers.	3.00% employers.	3.00% employers.
	Ceiling:	Ceiling:	Ceiling:In principle,	Ceiling:
	In principle, € 3,840 per	In principle, € 4,020 per	€4,200 per month, for	In principle, €4,440 per
	month, for special	month, for special	special payments (13th	month, for special
	payments (13th and		and 14th salary) €8,400	payments (13th and
	14th salary) € 7,680 per	14th salary) € 8,040 per	per year.	14th salary) €8,880 per

	year. No employers' or employees' contributions for women over the age of 56 years and men over the age of 58 years.	year. No employers' or employees' contributions for women and men over the age of 57 years. Employees' contributions are omitted or reduced in case of low incomes. There is no employee contribution to be paid up to $\in 1,128$. Contribution rate paid by employee with an income over $\in 1,128$ up to $\in 1,230$ amounts to 1% and with an income over $\in 1,230$ up to $\in 1,384$ to 2%.	No employers' or employees' contributions for women and men who have reached the age of 58 before 1 June 2011.Employees' contributions are omitted or reduced in case of low incomes. There is no employee contribution to be paid up to \in 1,179. Contribution rate paid by employee with an income over \in 1,179 up to \in 1,286 amounts to 1% and with an income over \in 1,286 up to \in 1,447 to 2%.	year. No employers' or employees' contributions for women and men who have reached the age of 58 before 1 June 2011. Employees' contributions are omitted or reduced in case of low incomes. There is no employee contribution to be paid up to $\in 1,219$. Contribution rate paid by employee with an income over $\in 1,219$ up to $\in 1,330$ amounts to 1% and with an income over $\notin 1,330$ up to $\notin 1,497$ to 2%.
BE	Part of the contributions from global management, which varies according to need.	Part of the contributions from global management, which varies according to need.	Part of the contributions from global management, which varies according to need.	Part of the contributions from global management, which varies according to need.
СҮ	6% of the global contribution in respect of employed persons is transferred out of the Social Insurance Fund (Ταμείο Κοινωνικών Ασφαλίσεων) paid into a separate Unemployment Benefit (Επίδομα Ανεργίας) Account.	6% of the global contribution in respect of employed persons is transferred out of the Social Insurance Fund (Ταμείο Κοινωνικών Ασφαλίσεων) paid into a separate Unemployment Benefit (Επίδομα Ανεργίας) Account.	From the overall contribution a percentage of 1.15% of the insurable earnings of employed persons is allocated to the Unemployment Benefit Account (Λογαριασμό Παροχών Ανεργίας).	From the overall contribution a percentage of 1.15% of the insurable earnings of employed persons is allocated to the Unemployment Benefit Account (Λογαριασμό Παροχών Ανεργίας).
EE	Unemployment Insurance Benefit	Unemployment		Unemployment Insurance Benefit (töötuskindlustushüviti s): 3% of gross wages total, of which 2% employee, 1% employer.
FI	Earnings-related security (ansioperusteinen sosiaaliturva): Employer: 0.75% on first € 840,940 of payroll, 2.95% on exceeding amount Insured:	Earnings-related security (ansioperusteinen sosiaaliturva): Employer: 0.65% on the first € 1,788,000 of payroll, 2.70% on exceeding amount Insured:	Earnings-related security (ansioperusteinen sosiaaliturva): Employer: 0.80% on the first € 1,879,500 of payroll, 3.20% on exceeding amount Insured:	Earnings-related security (ansioperusteinen sosiaaliturva): Employer: 0.80% on the first €1,990,500 of payroll, 3.20% on exceeding amount Insured:

FR	 6.4% total, of which 2.4% employee, 4.0% employer. Monthly ceiling: € 10,728 Annual ceiling: € 128,736 	 6.4% total, of which 2.4% employee and 4.0% employer. Monthly ceiling: € 11,436 Annual ceiling: € 137,23 	6.4% total, of which 2.4% employee, 4.0% employer. Monthly ceiling: \notin 11,784 Annual ceiling: \notin 141,408	Employees: 2.4% Employers: 4% . ForrecruitmentsasofJuly2013, variationoftheemployercontributionrateaccording to the type ofcontractandage.Monthlyceiling: $\in 12,344$ Annualceiling: $\in 148,128$
GE	Unemployment	Unemployment	Unemployment	Unemployment
	insurance:	insurance:	insurance:	insurance:
	4.2% total, of which	2.8% total, of which	3.0% total, of which	3.0% total, of which
	2.1% employee,	1.4% employee,	1.5% employee,	1.5% employee,
	2.1% employer.	1.4% employer.	1.5% employer.	1.5% employer.
	Annual ceiling:	Annual ceiling:	Annual ceiling:	Annual ceiling:
	\notin 63,000 in the old	\in 64,800 in the old	$\in 66,000$ in the old	ϵ 69,600 in the old
	Länder and \notin 54,600 in	Länder and \in 54,600 in	Länder and $\in 57,600$ in	Länder and ϵ 58,800 in
	the new Länder.	the new Länder.	the new Länder.	the new Länder.
GR	5% total, of which 1.33% employee, 3.67% employer. Persons insured before 1.1.1993: Ceiling: $\in 2,315.00$ per month. Persons insured since 1.1.1993: Ceiling: $\in 5,279.60$ per month.	4% total, of which 1.33% employee, 2.67% employer. Persons insured before 1/1/1993: Ceiling: € 2,432.25 per month. Persons insured since 1/1/1993: Ceiling: € 5,543.55 per month.	blick left left left left left left left left	5% total, of which 1.83% employee, 3.17% employer. Beginning of application: 1/8/2011. Ceiling: €5,546.80 per month.
IE	Included in the overall	Included in the overall	Included in the overall	Included in the overall
	Social Insurance rates.	Social Insurance rates.	Social Insurance rates.	Social Insurance rates.
	Overall Social	Overall Social	Overall Social	Overall Social
	Insurance (excluding	Insurance rates	Insurance rates	Insurance rates
	contribution for	(excluding contribution	(excluding contribution	(excluding contribution
	sickness and maternity	for sickness and	for sickness and	for sickness and
	benefits in kind) rates:	maternity benefits in	maternity benefits in	maternity benefits in
	Self-employed:	kind):	kind):	kind):
	3.0%. No ceiling.	* Employee: 4.0%. The	* Employee: 4.0%. The	* Employee: 4.0%.
	Employee:	first \in 127 of weekly	first \in 127 of weekly	Employees with
	4.0% . The first \in 127 of	earnings is excluded	earnings is excluded	earnings up to €352 per
	weekly earnings is	from the calculation of	from the calculation of	week are exempt from
	excluded from the	the percentage payable.	the percentage payable.	making a contribution.
	calculation of the	Employees with	Employees with	No ceiling.
	percentage payable.	earnings up to \in 352	earnings up to \in 352	* Employer: 4.25%
	Employees with	per week are exempt	per week are exempt	(including a 0.35%
	earnings up to \in 339	from making a	from making a	National Training Fund
	per week are exempt	contribution. Annual	contribution. No	Levy) on incomes up to
	from making a	ceiling: \in 75,036.	ceiling.	€356 per week. 10.75%

	contribution. Annual ceiling: \notin 48,800. Employer: 8.5% (including a 0.7% National Training Fund Levy) on incomes up to \notin 356 per week. 10.75% (including a 0.7% National Training Fund Levy) on all earnings where weekly income is in excess of \notin 356. No ceiling.	* Employer: 8.5% (including a 0.7% National Training Fund Levy) on incomes up to \in 356 per week. 10.75% (including a 0.7% National Training Fund Levy) on all earnings where weekly income is in excess of \in 356. No ceiling.	* Employer: 8.5% (including a 0.7% National Training Fund Levy) on incomes up to \in 356 per week. 10.75% (including a 0.7% National Training Fund Levy) on all earnings where weekly income is in excess of \in 356. No ceiling.	(including a 0.7% National Training Fund Levy) on all earnings where weekly income is in excess of €356. No ceiling.
IT	Industry (with over 50 employees): 4.71% total, of which 0.30% employee, 4.41% employer. Commerce (with over 50 employees): 2.51% total, of which 0.30% employee, 2.21% employee, 2.21% employer. The rate includes 1.61% contribution for unemployment benefit and 3.1% (industry) for topping up earnings in case of partial unemployment; this supplement made up as follows: 2.2% ordinary earnings supplement (Cassa integrazione guadagni ordinaria), 0.9% extraordinary earnings supplement (Cassa integrazione guadagni straordinaria), (0.3% of which is from the employee, 0.6% from the employer). No ceiling.	Both industry and commerce (almost all enterprises): 1.61%, paid by the employer. No ceiling in either case.	Both industry and commerce (almost all enterprises): 1.61%, paid by the employer. No ceiling in either case.	Both industry and commerce (almost all enterprises): 1.61%, paid by the employer. Additional contribution of 1.40% (thus a total contribution rate of 3.01%) in case of fixed- term work contracts. No ceiling in either case.
LU	The employment fund is financed by solidarity taxes from individuals and legal persons and by a general annual contribution from the State.	The employment fund is financed by solidarity taxes from individuals and legal persons and by a general annual contribution from the State.	The employment fund is financed by solidarity taxes from individuals and legal persons and by a general annual contribution from the State.	The employment fund is financed by solidarity taxes from individuals and legal persons and by a general annual contribution from the State.
MT	Included in the overall contribution.	Included in the overall contribution.	Included in the overall contribution.	Included in the overall contribution.
NL	The contributions to	The contributions to	The contributions to	The contributions to

unemployment	unemployment	unemployment	unemployment
insurance	insurance	insurance	insurance
(Werkloosheidswet,	(Werkloosheidswet,	(Werkloosheidswet,	(Werkloosheidswet,
WW) consists of two	WW) consists of two	WW) consists of two	WW) consists of two
separate components:	separate components:	separate components:	separate components:
one is paid into the	one is paid into the	one is paid into the	one is paid into the
-	•	-	
General	General	General	General
Unemployment Fund	Unemployment Fund	Unemployment Fund	Unemployment Fund
(Algemeen	(Algemeen	(Algemeen	(Algemeen
werkloosheidsfonds,	werkloosheidsfonds,	werkloosheidsfonds,	werkloosheidsfonds,
Awf); the other, into	Awf); the other, into	Awf); the other, into	Awf); the other, into
the social security	the social security	the social security	the social security
agency's Redundancy	agency's Redundancy	agency's Redundancy	agency's Redundancy
Payment Fund	Payment Fund	Payment Fund	Payment Fund
(Wachtgeldfonds,	(Wachtgeldfonds,	(sectorfondsen, Sfn).	(sectorfondsen, Sfn).
Wgf).	Wgf).	Awf-	Awf-contribution:
Awf contribution:	Awf contribution:		1.70% paid by the
8.25% total, of which	4.15% paid by the	paid by the employer.	employer. Sfn-contribution:
3.85% employee,	employer.	Sfn-contribution:1.90%	
4.40% employer.	Wgf contribution:	paid by the employer.	2.76% paid by the
Wgf contribution:	1.75% paid by the	Ceiling for WW-	employer.
1.75% paid by the	employer.	contributions:The WW	Ceiling for WW-
employer.	Ceiling for WW-	contribution is paid	contributions:
Ceiling for WW-	contributions:	over a maximum of	The WW contribution
contributions:	The WW contribution	€ 189.60 per day with a	is paid over a
The WW contribution	is paid over a	contribution-free	maximum of €195.96
is paid over a	maximum of €185.46	allowance of €65.25	per day.
maximum of €174.64	per day with a	per day.	The mentioned Sfn-
per day with a	contribution-free	The mentioned Sfn-	contribution is an
contribution-free	allowance of €63 per		average; it may vary
	•		according to branch of
allowance of €60 per	day.	average; it may vary	
day.	The mentioned Wgf-	according to branch of	industry.
The mentioned Wgf-	contribution is an	industry.	
contribution is an	average; it may vary		
average; it may vary	according to branch of		
according to branch of	industry.		
industry.			
Included in the overall	Included in the overall	Included in the overall	Included in the overall
contribution.	contribution.	contribution.	contribution.
Contributions as a	Contributions as a	Contributions as a	Contributions as a
percentage of the	percentage of the	percentage of the	percentage of the
assessment base:	assessment base:	assessment base:	assessment base:
	assessment Dase.	assessment Dase.	assessment Dase.
1% employee,	10/ 1	10/ 1	10/ 1
1% employer,	1% employee,	1% employee,	1% employee,
2% voluntarily insured.	1% employer,	1% employer,	1% employer,
No contribution of	2% voluntarily	2% voluntarily	2% voluntarily
employee and	insured.	insured.	insured.
employer if the	No contribution of	No contribution of	Assessment base:
employee receives Old-	employee and	employee and	Employees and
age pension.	employer if the	employer if the	employer: monthly
Assessment base	employee receives Old-	employee receives Old-	gross earnings.
ceiling:	age pension.	age pension.	Voluntarily insured:
Minimum SKK 7,600	Assessment base	r	sum assigned by
(€ 226) per month	ceiling:	Assessment base	insurer.
	Minimum € 295.50 per		No contribution of
	-	ceiling: Minimum (anly for	
maximum SKK 56,283	month (minimum	Minimum (only for	employee and

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	(€ 1,677) per month (3 times the average monthly wage in 2006). Lower minimum ceilings for persons with disabilities and young persons (see 3. "Sickness and maternity: cash benefits").	wage), maximum € 2,892.12 per month (4 times the average monthly wage in 2008). Lower minimum ceilings for persons with disabilities and young persons (see Table I, 3. "Sickness and maternity: Cash benefits").	self-employed and voluntarily insured) 44.2% of national average wage; maximum € 2,978 per month (4 times the average monthly wage in 2009).	employer if the employee receives Old- age pension, Early pension or full Invalidity pension. Assessment base ceiling: Minimum (only for self-employed and voluntarily insured) 50% of national average wage; maximum \notin 4,025 per month (5 times the average monthly wage in 2012).
SK	0.20% of gross wages total, of which 0.14% employee, 0.06% employer. No ceiling.	0.20% of gross wages total, of which 0.14% employee and 0.06% employer. No ceiling.	0.20% of gross wages total, of which 0.14% employee and 0.06% employer. No ceiling.	0.20% of gross wages total, of which 0.14% employee and 0.06% employer. No ceiling.
SP	Unemployment insurance: 7.30% total, of which 1.55% employee, 5.75% employer. Ceiling: € 2,996.10 per month.	Unemployment insurance: 7.05% total, of which 1.55% employee, 5.50% employer. Ceiling: € 3,166.20 per month.	Unemployment insurance: 7.05% total, of which 1.55% employee, 5.50% employer. Applied to a maximum ceiling (tope máximo de cotización) of \in 3,230.10 per month.	Unemployment insurance: 7.05% total, of which 1.55% employee, 5.50% employer. Applied to a maximum ceiling (tope máximo de cotización) of \in 3,425.70 per month.
Source:		European	C	ommission

Source: European Commission (http://www.missoc.org/MISSOC/INFORMATIONBASE/COMPARATIVETABLES/MISSOCDA TABASE/comparativeTableSearch.jsp)